

FIGURE 2

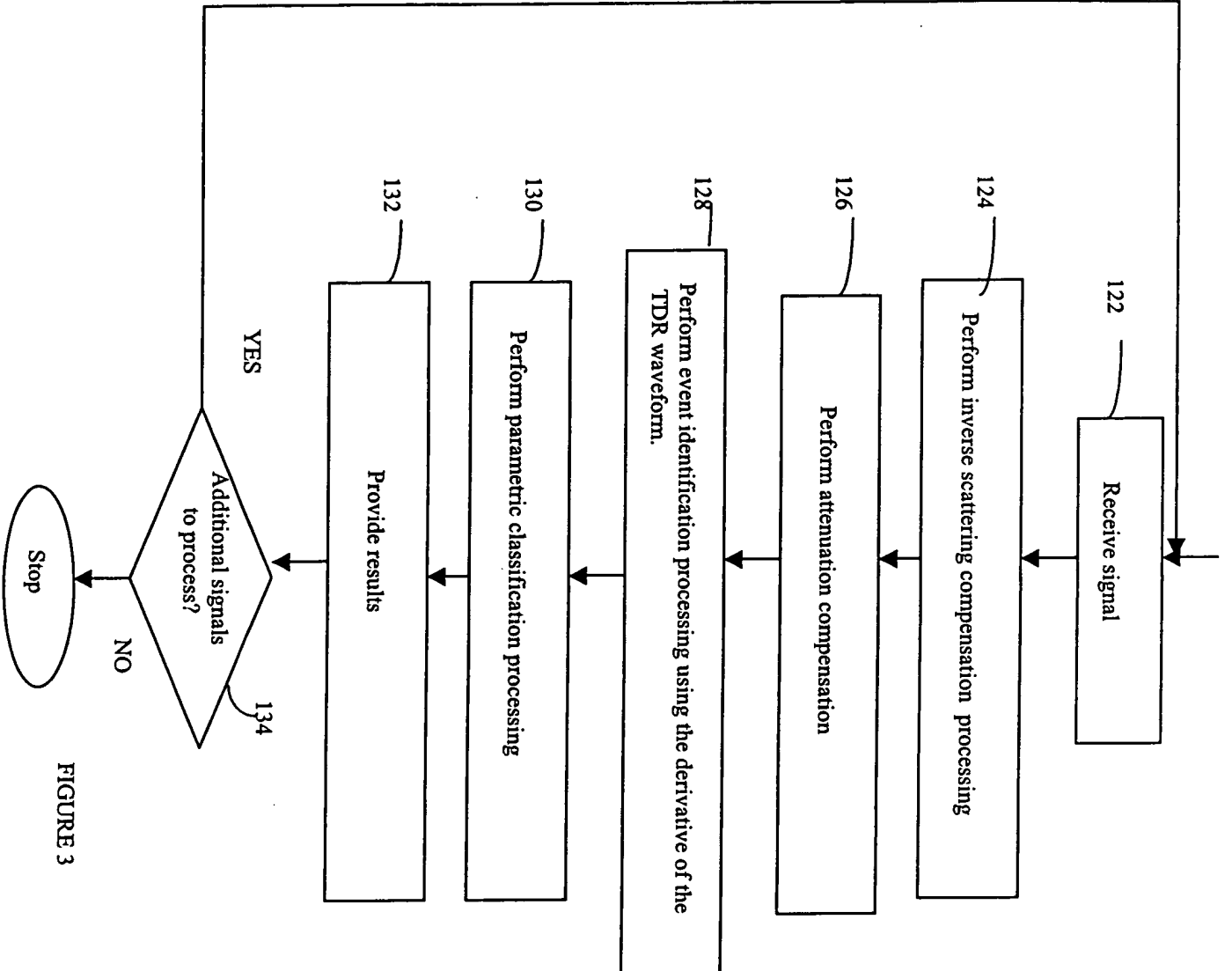


FIGURE 3

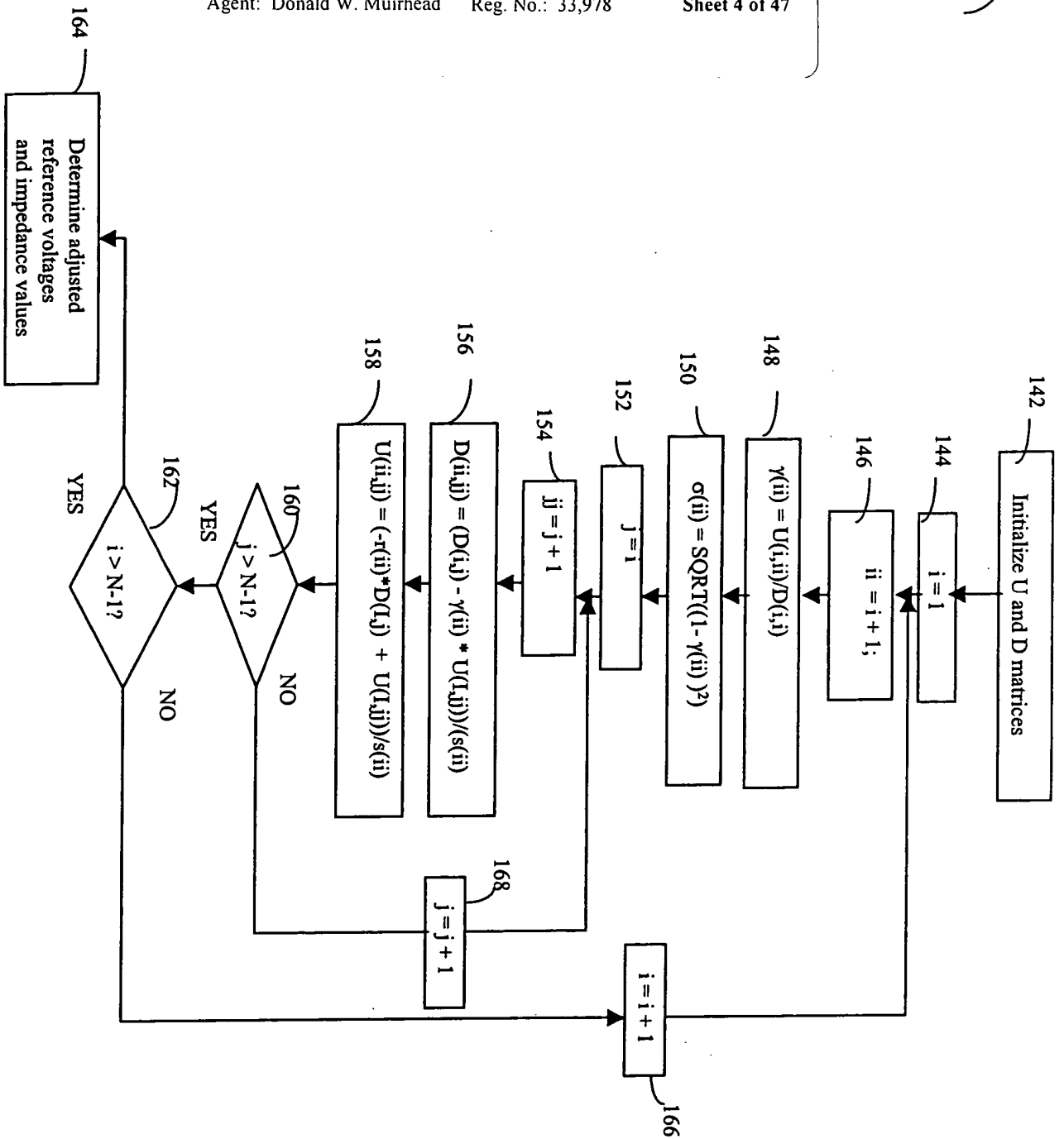


FIGURE 4

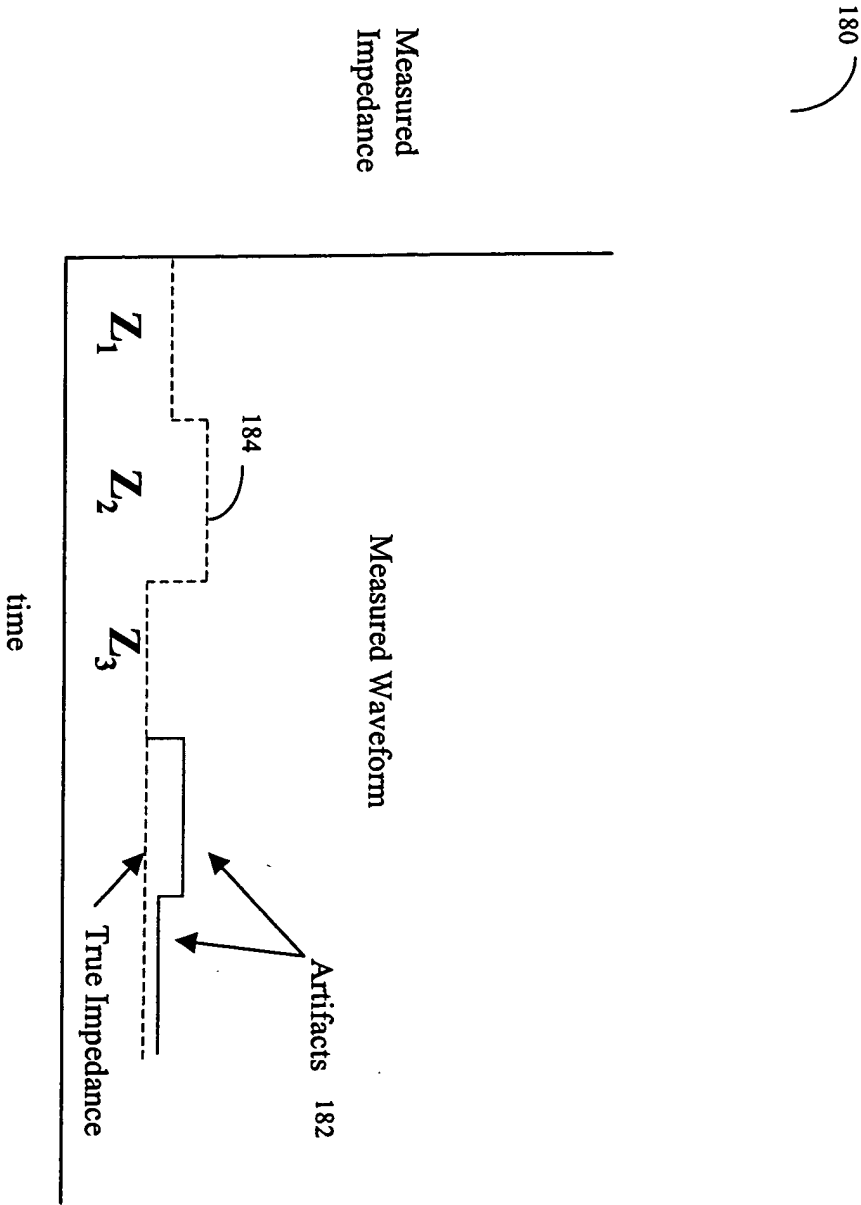


FIGURE 5A

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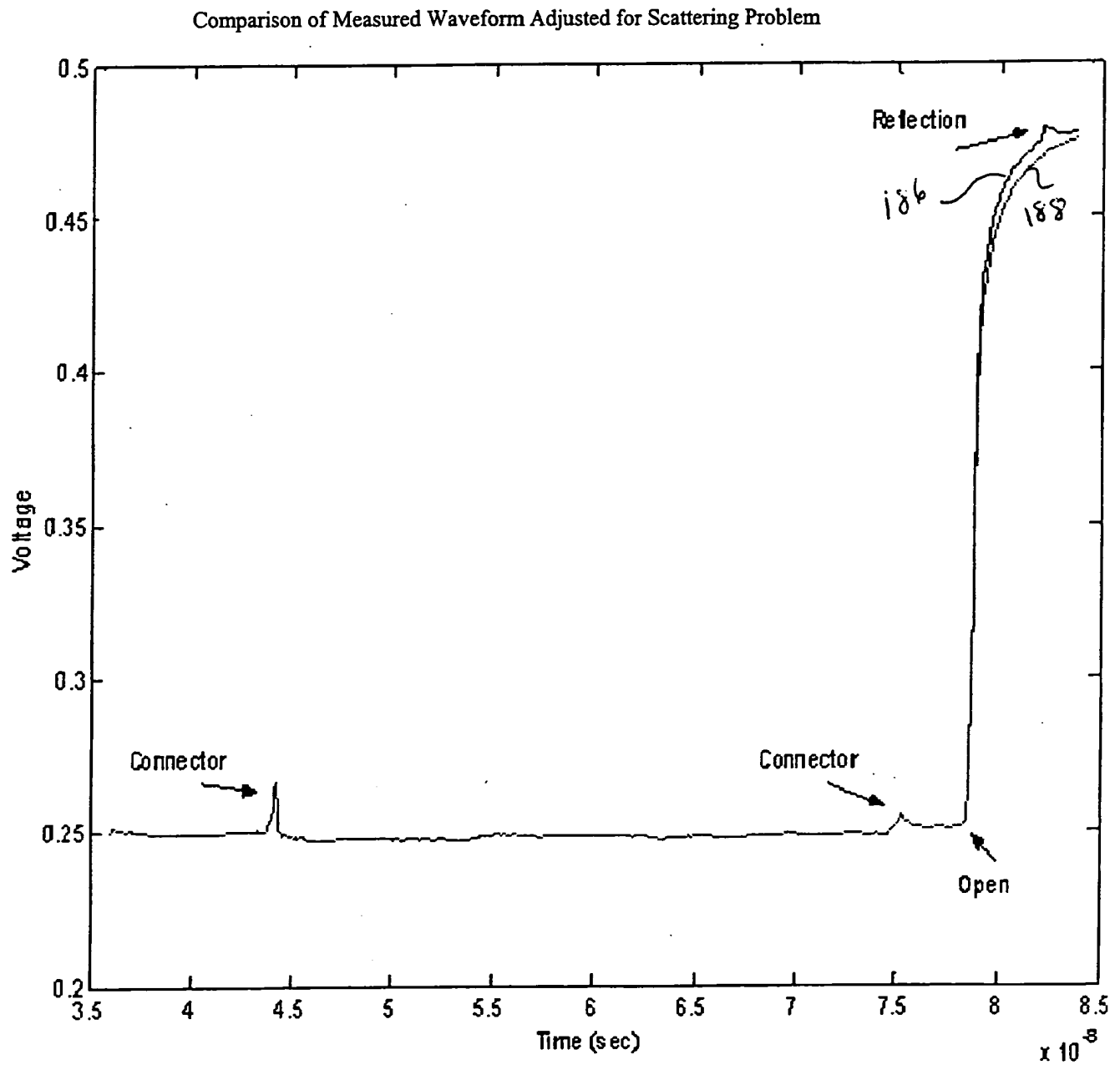


FIGURE 5B

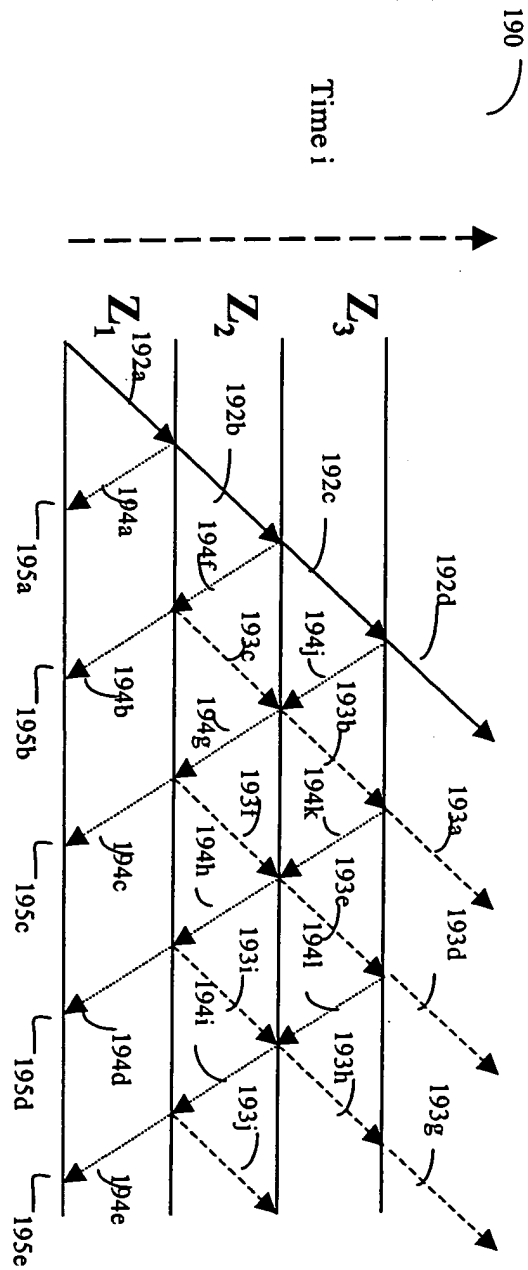
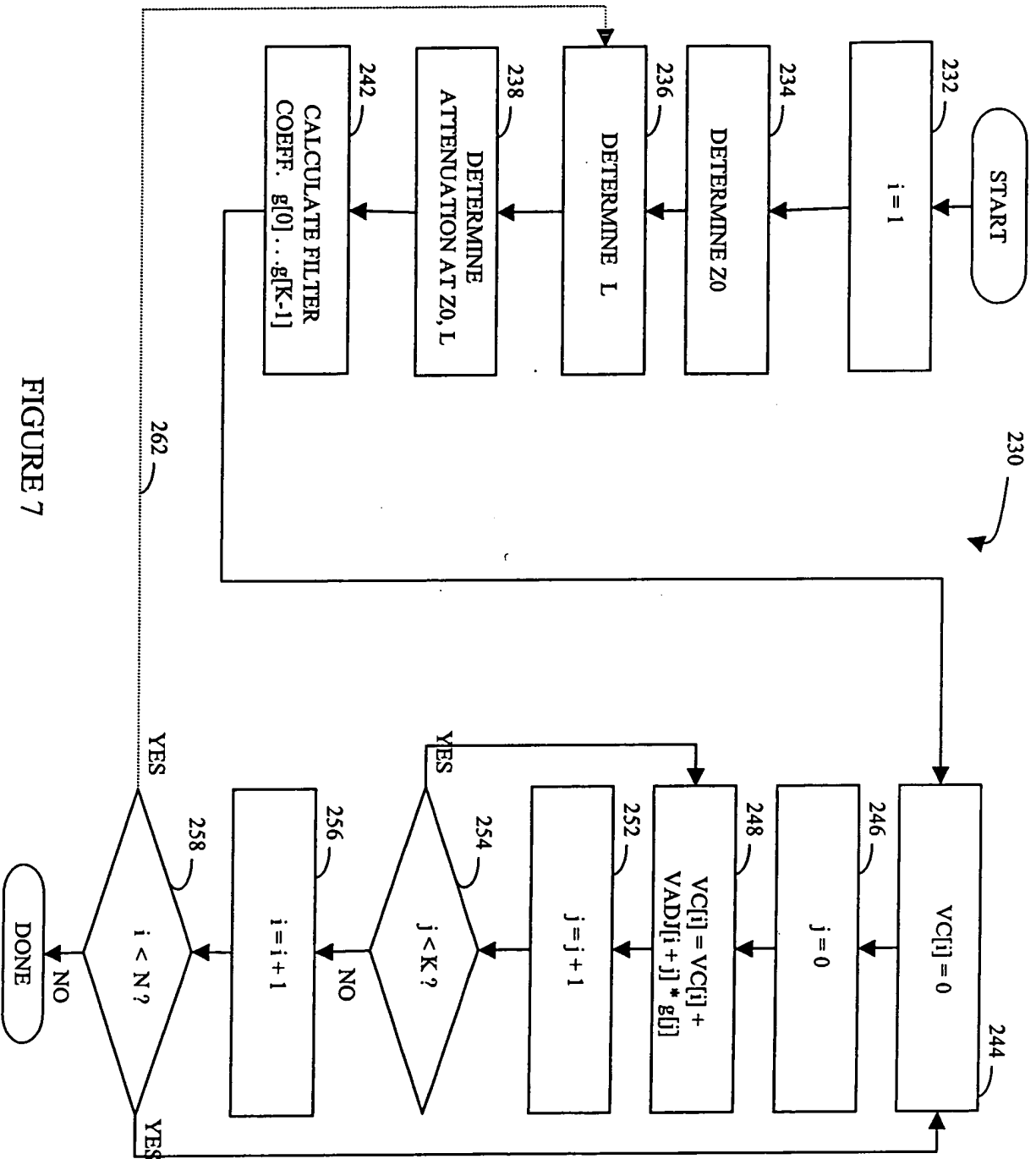


FIGURE 6



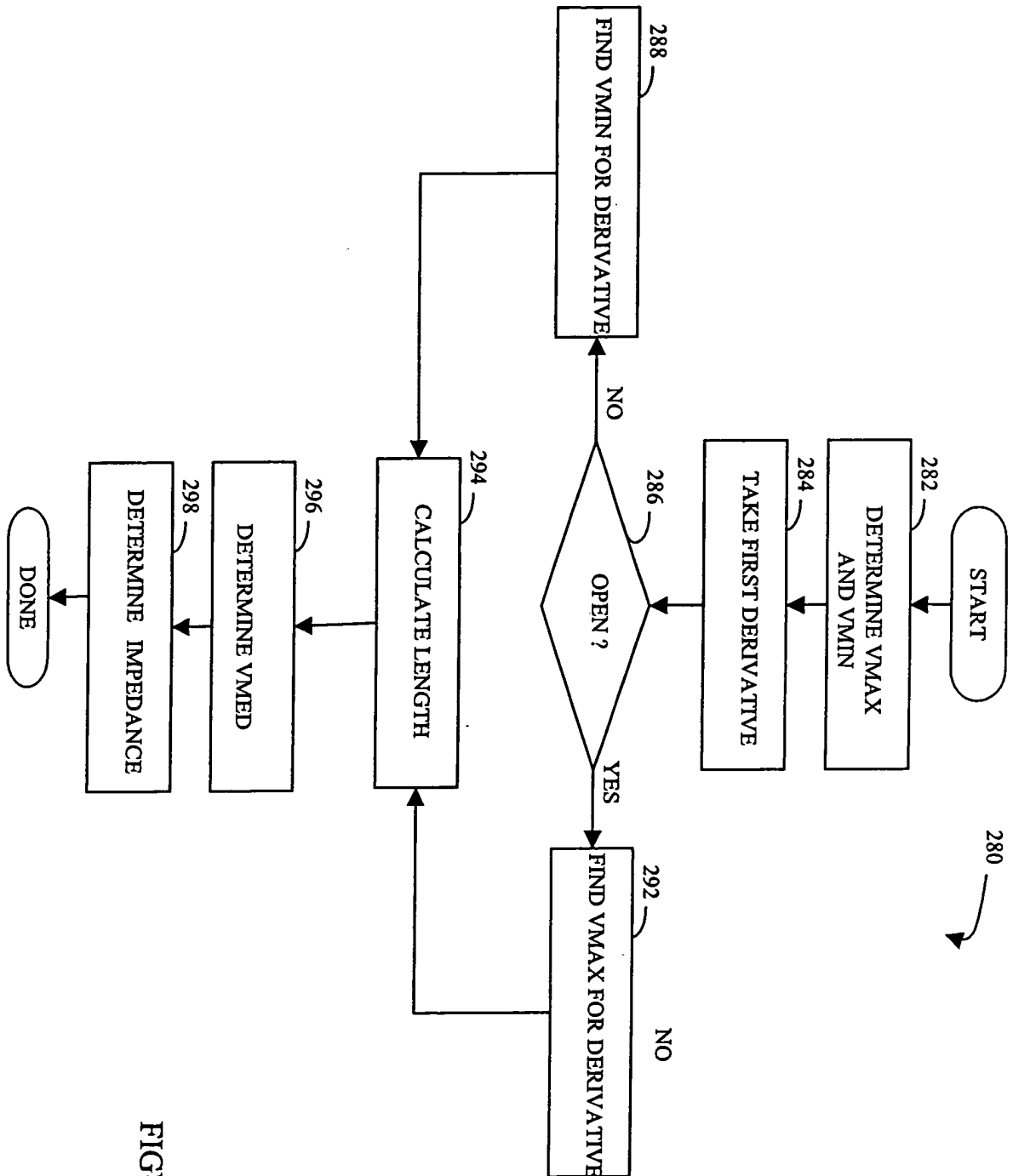


FIGURE 8

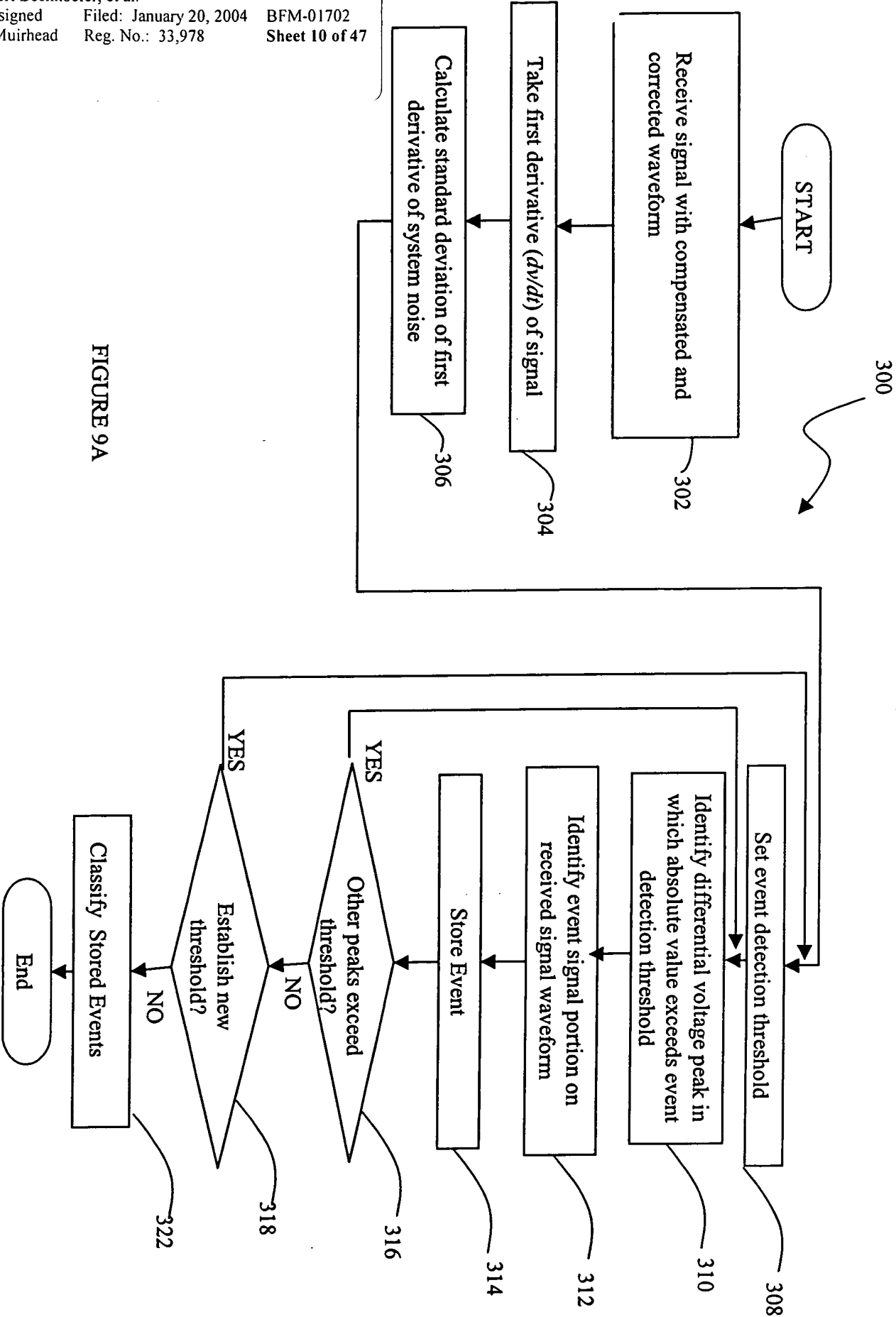


FIGURE 9A

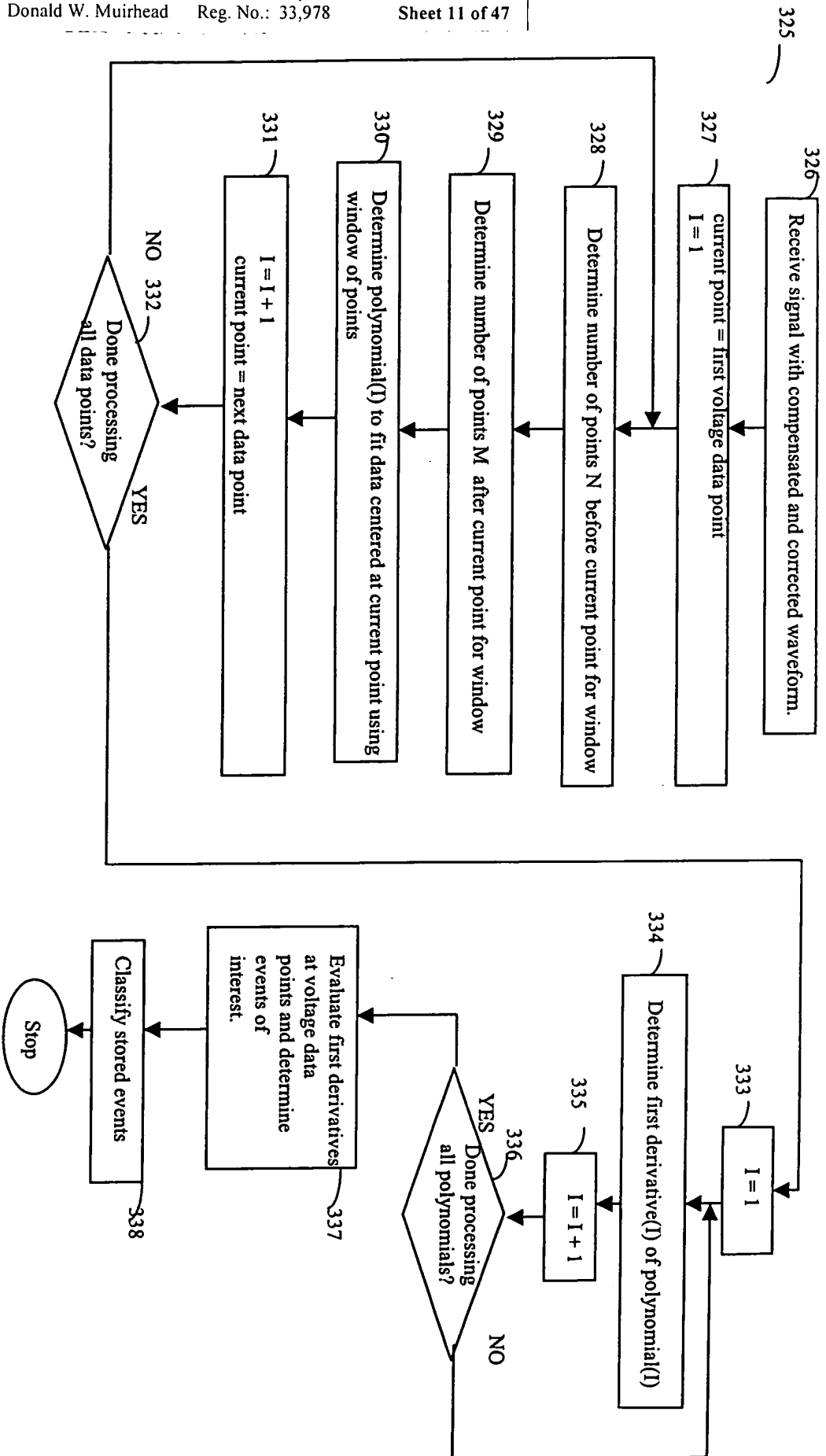


FIGURE 9B

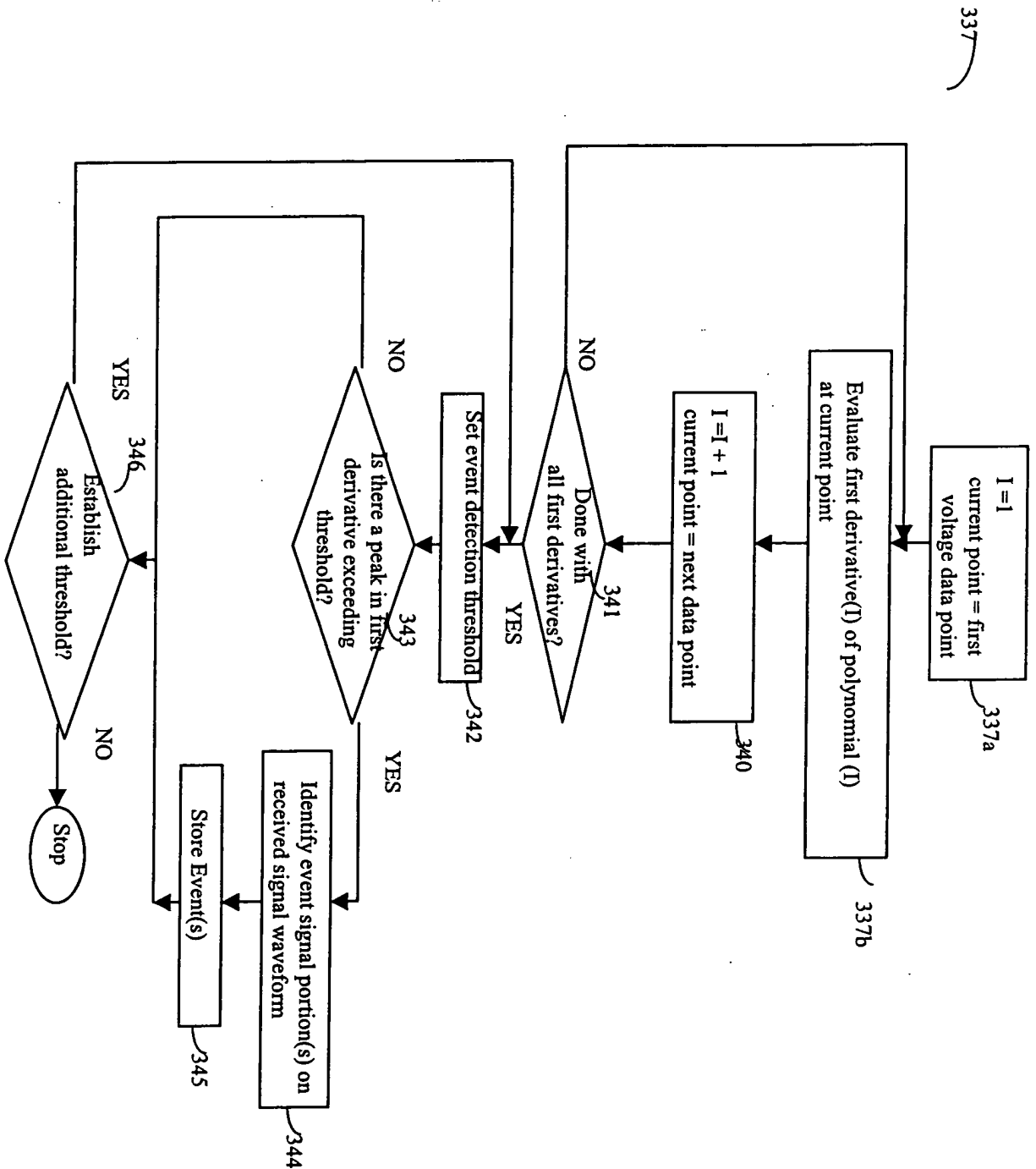


FIGURE 9C

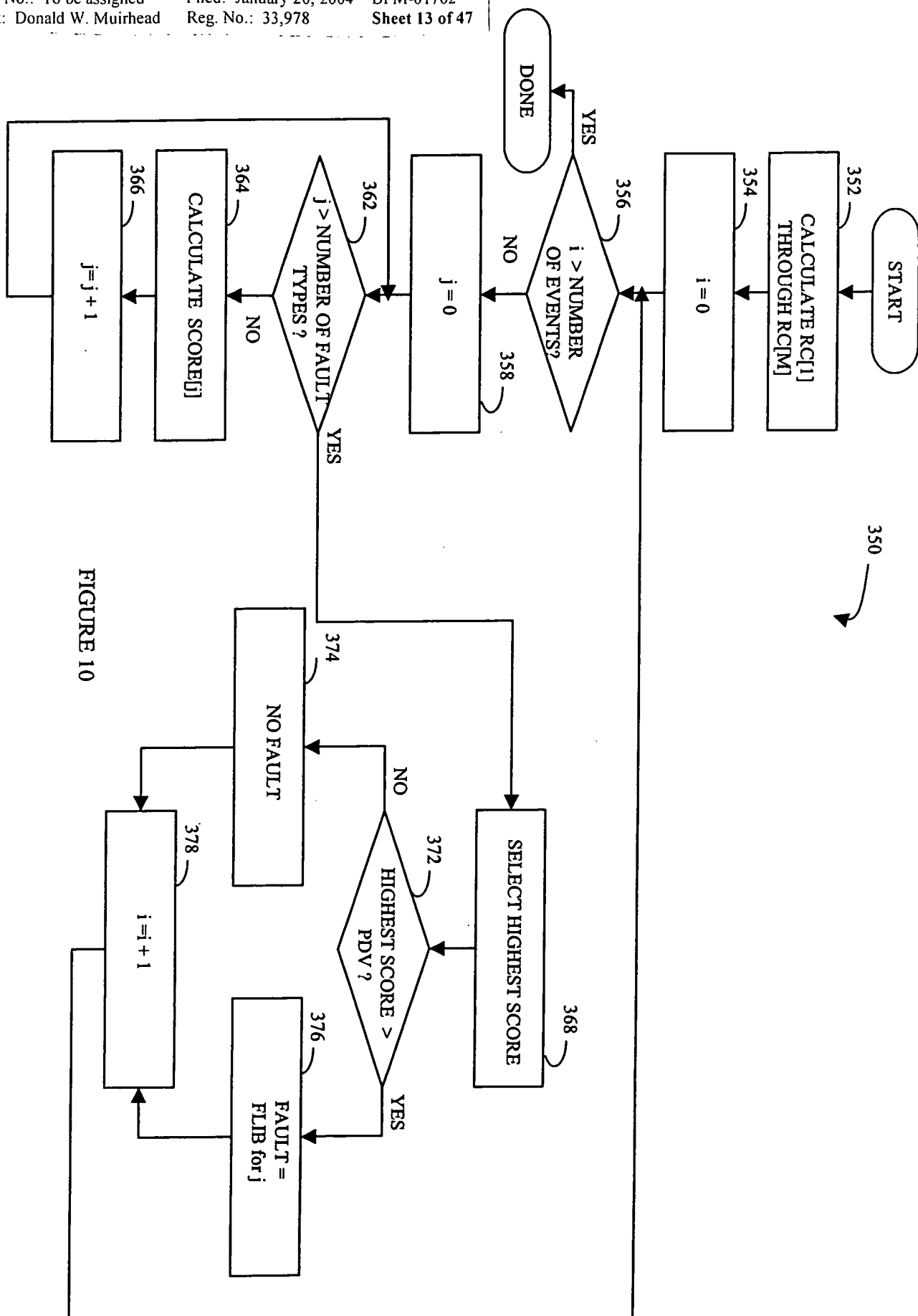


FIGURE 10

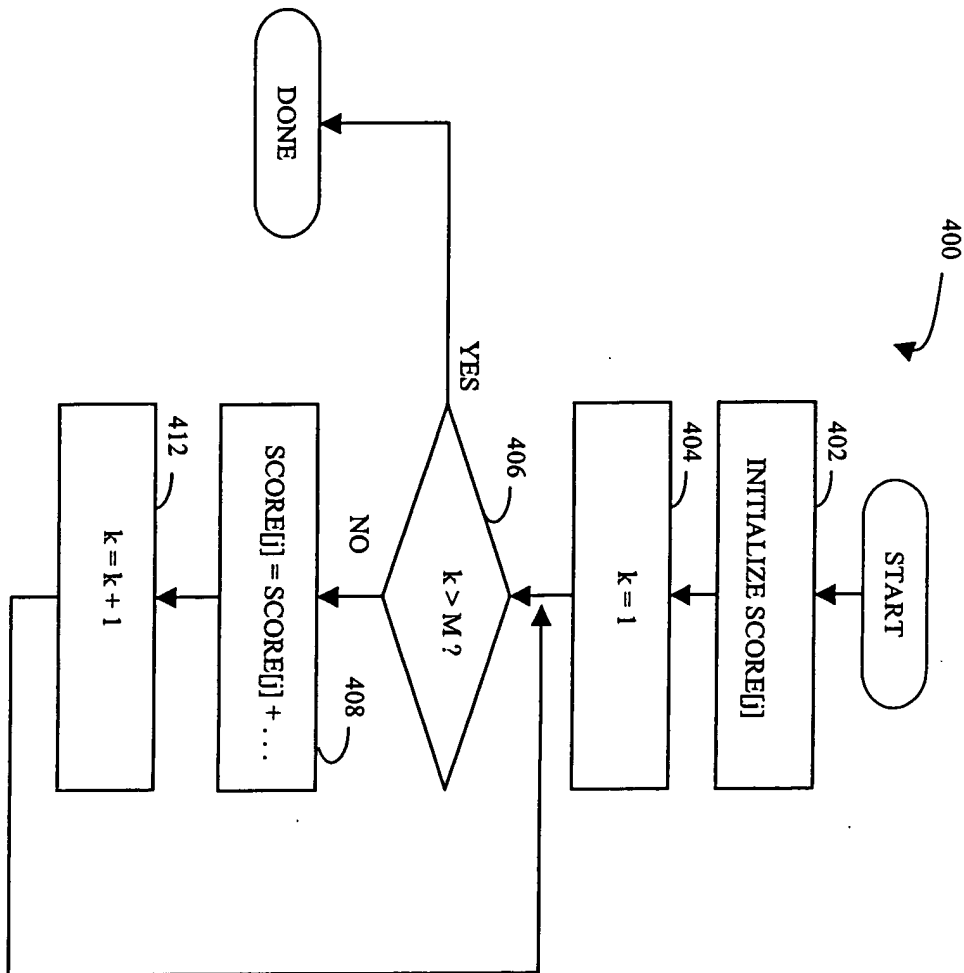


FIGURE 11

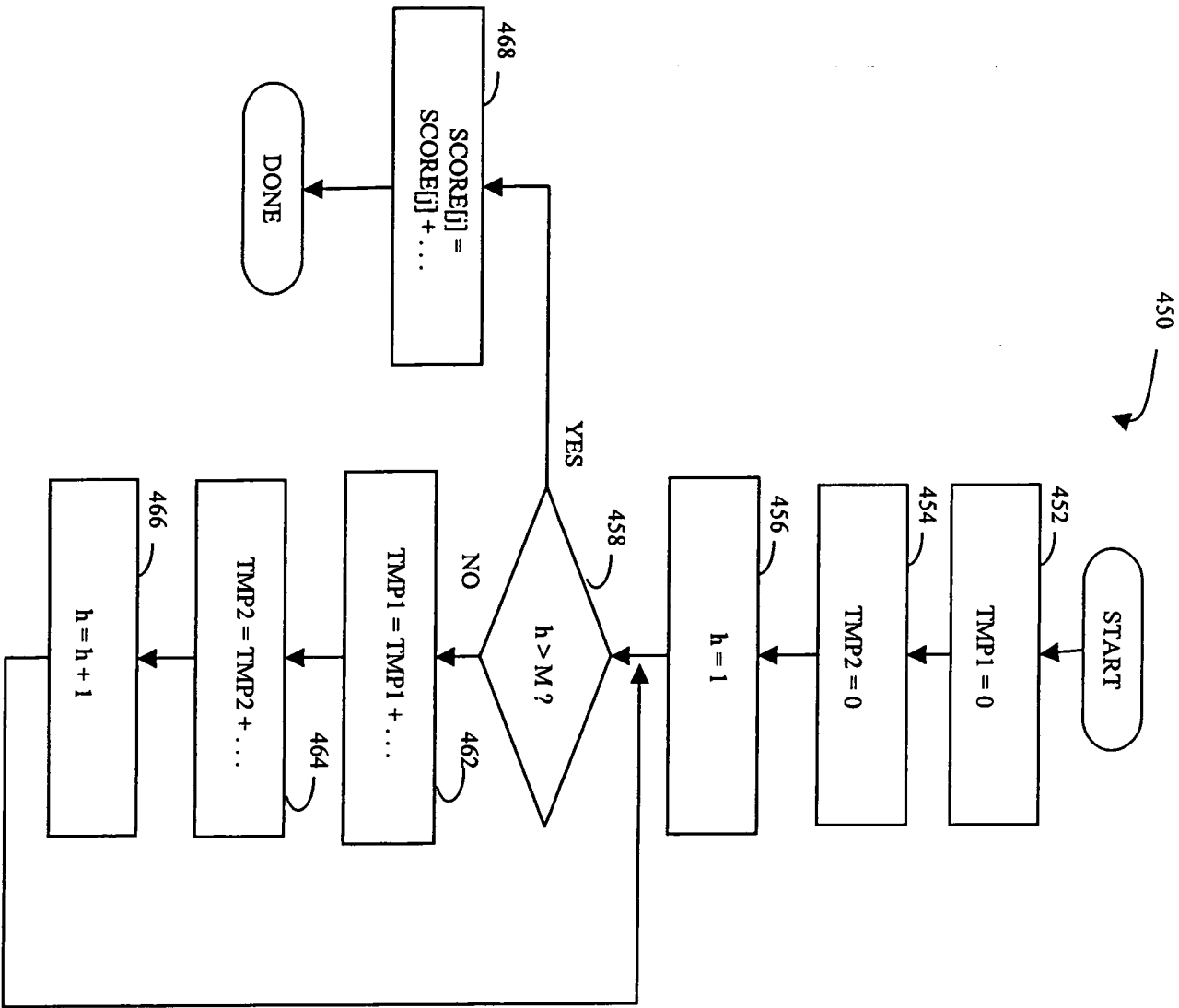


FIGURE 12

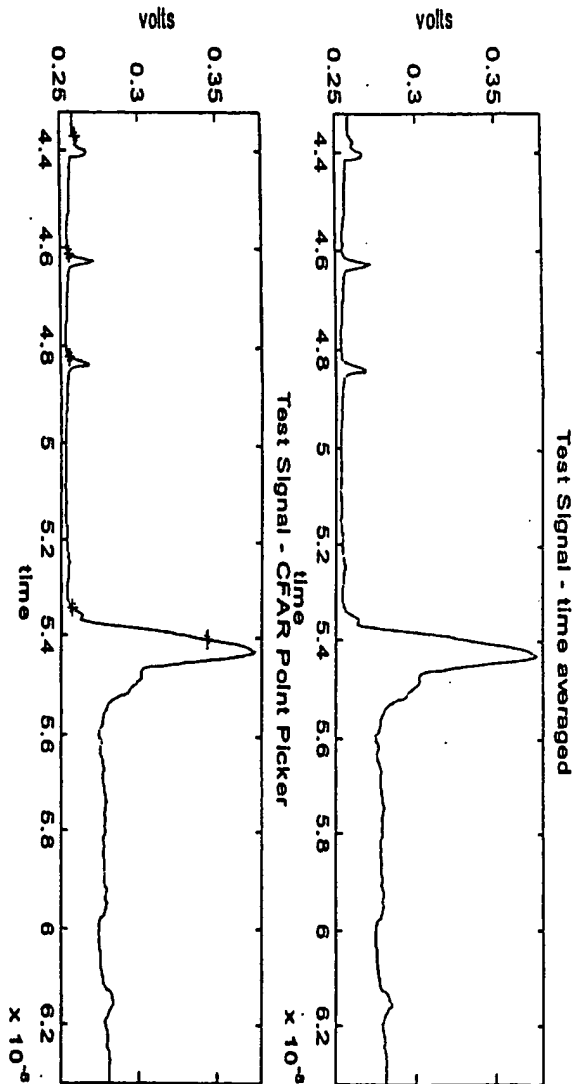


FIGURE 13A

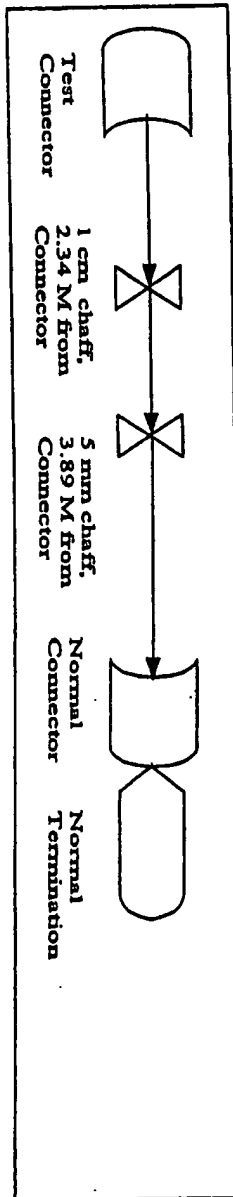


FIGURE 13B

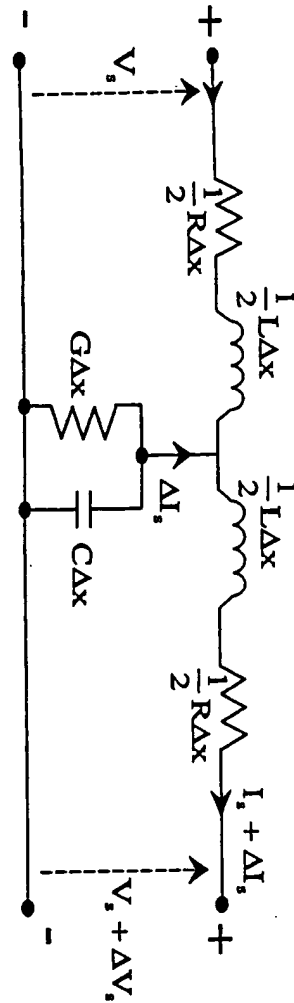


FIGURE 14

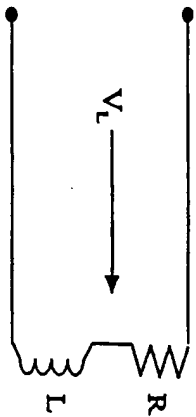


FIGURE 15

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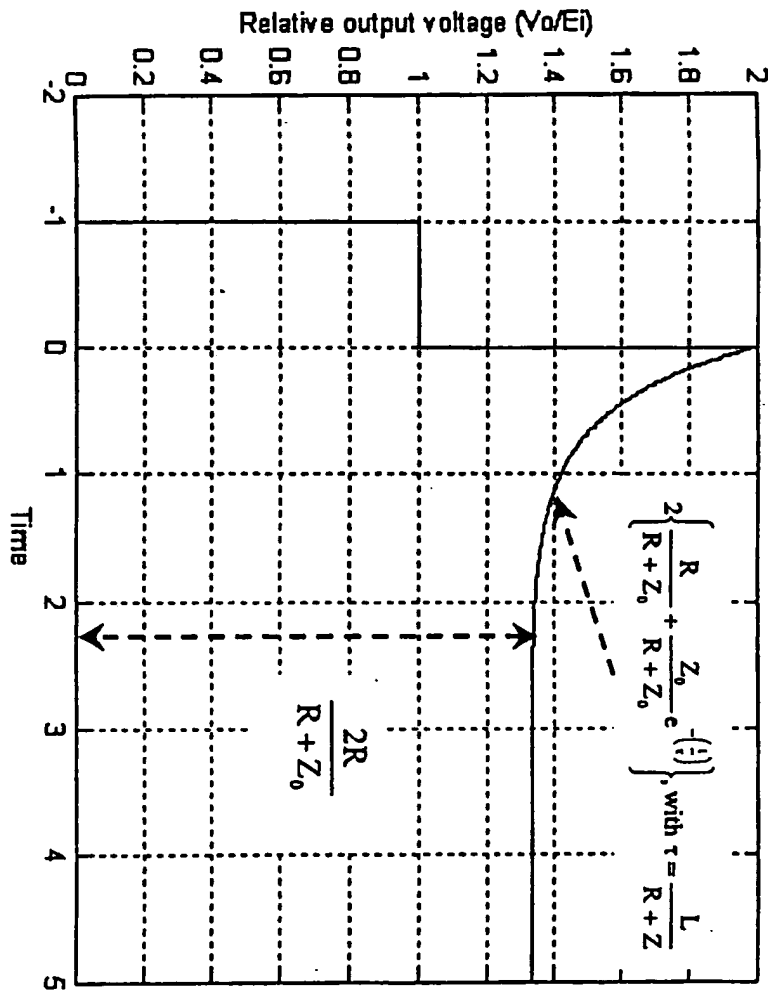


FIGURE 16

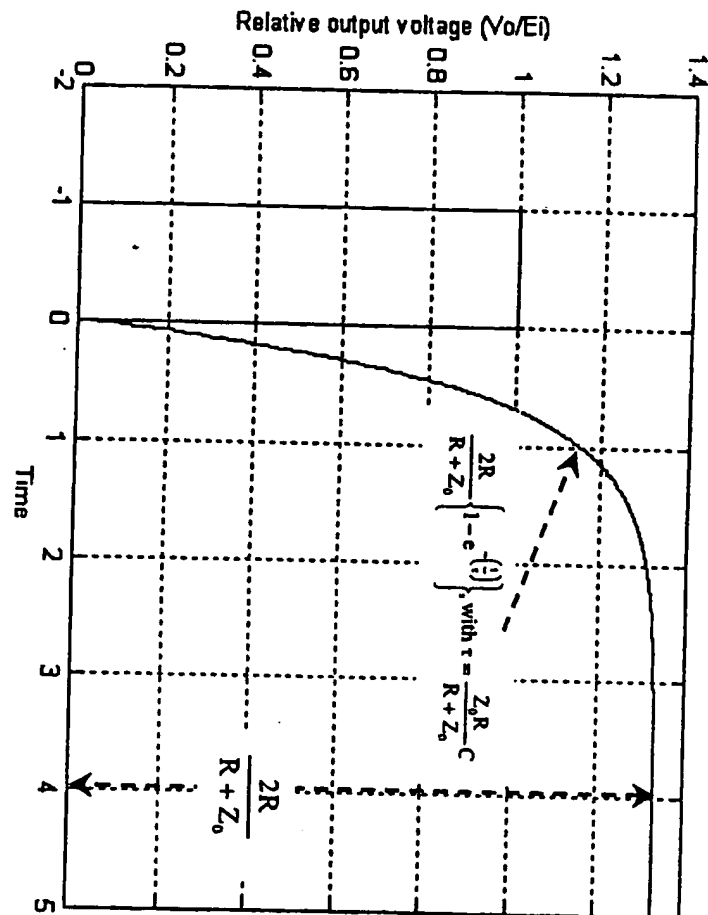


FIGURE 17

TITLE: WIRE FAULT DETECTION

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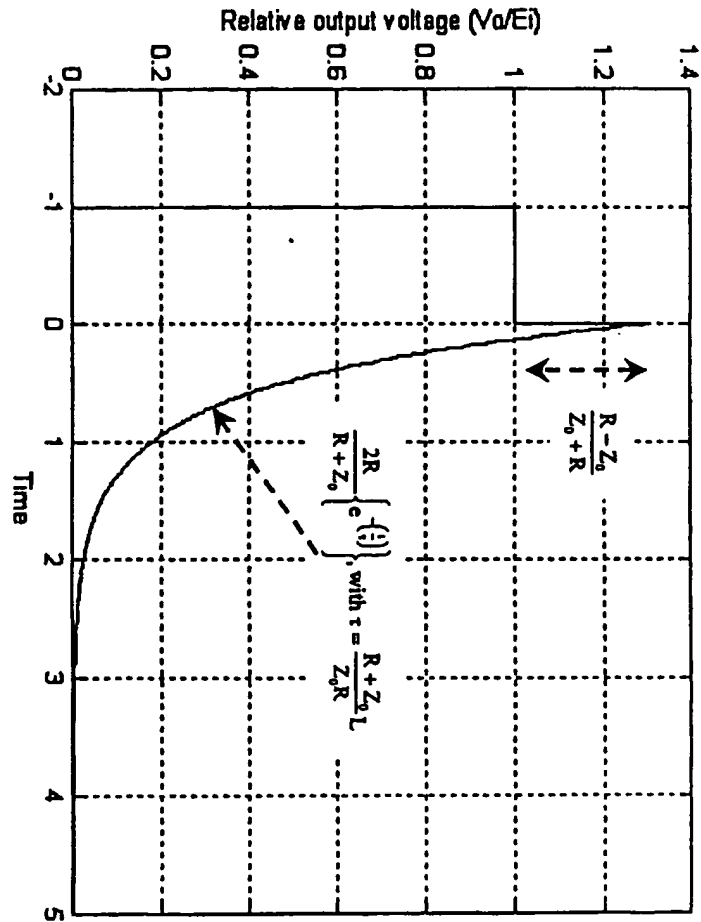


FIGURE 18

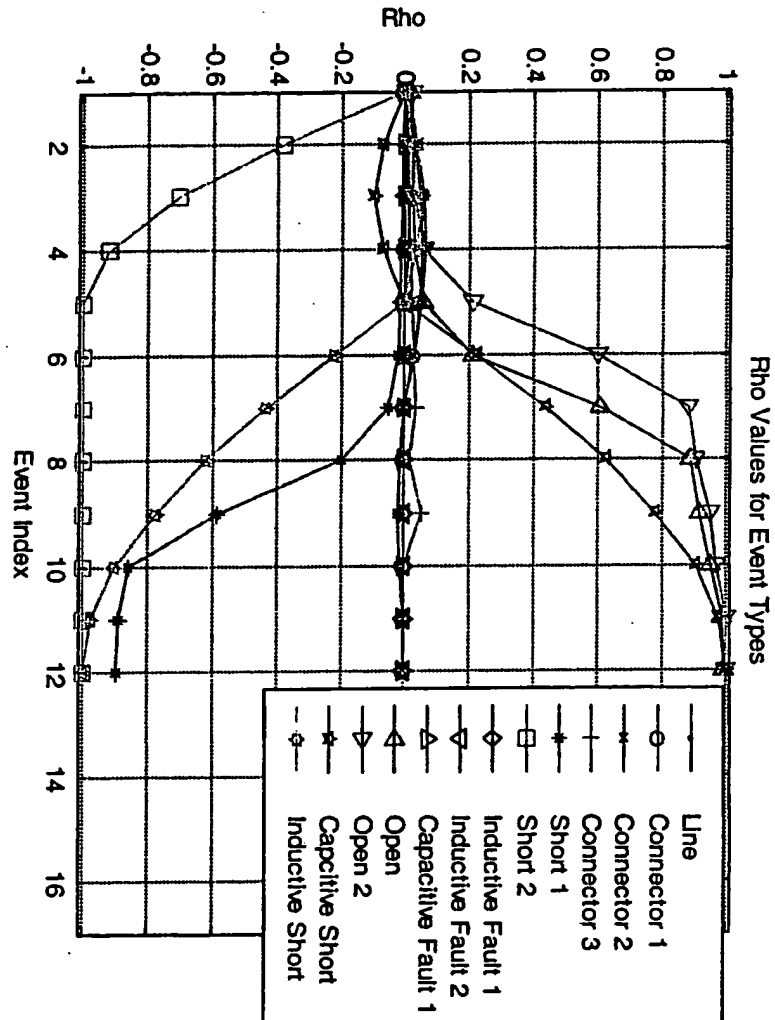
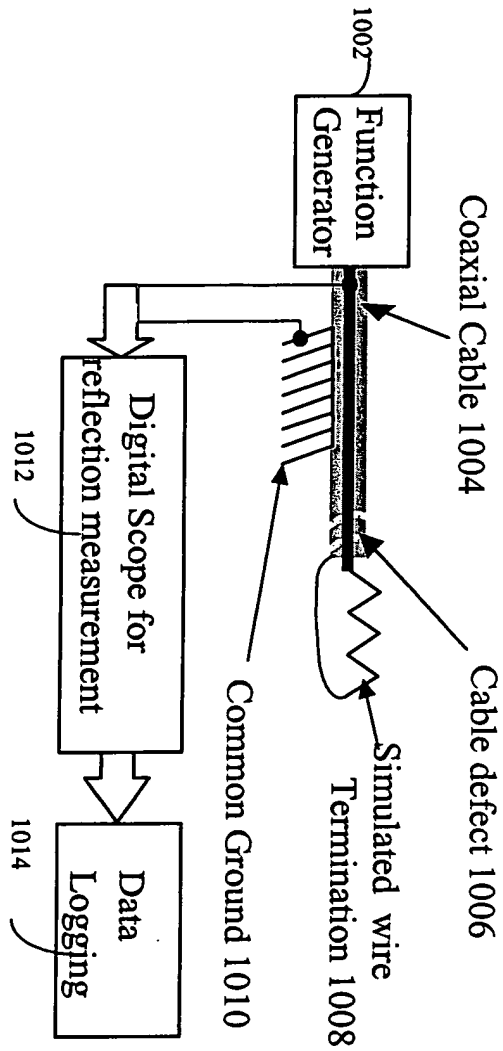


FIGURE 19



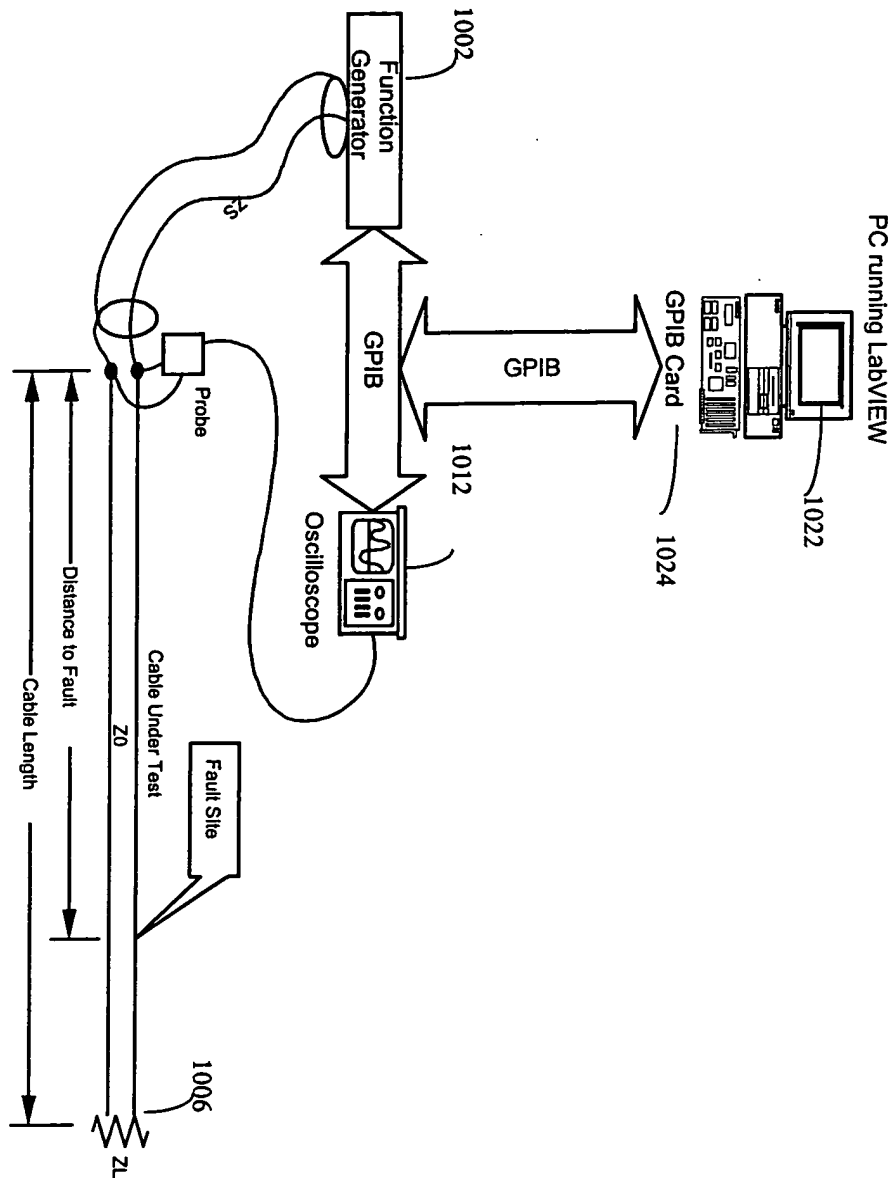


FIGURE 21

TITLE: WIRE FAULT DETECTION

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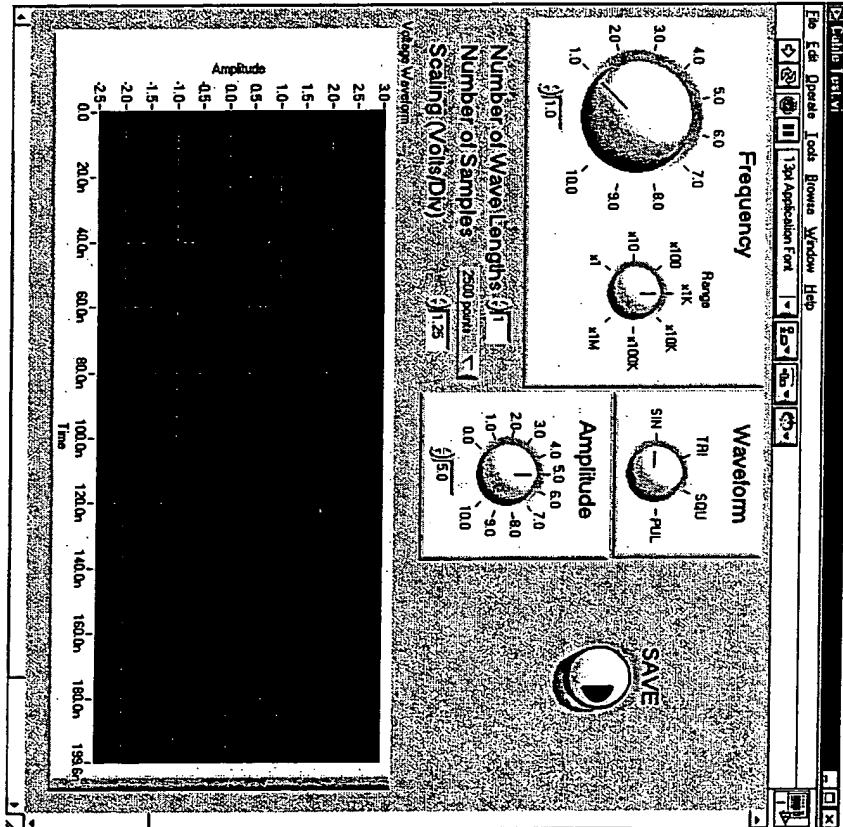


FIGURE 22A

BEST AVAILABLE COPY

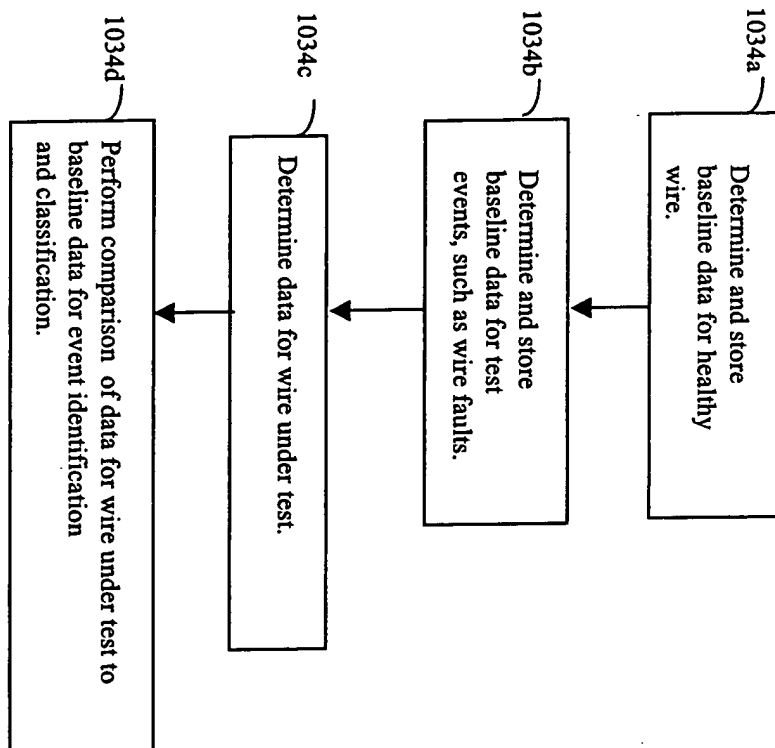


FIGURE 22B

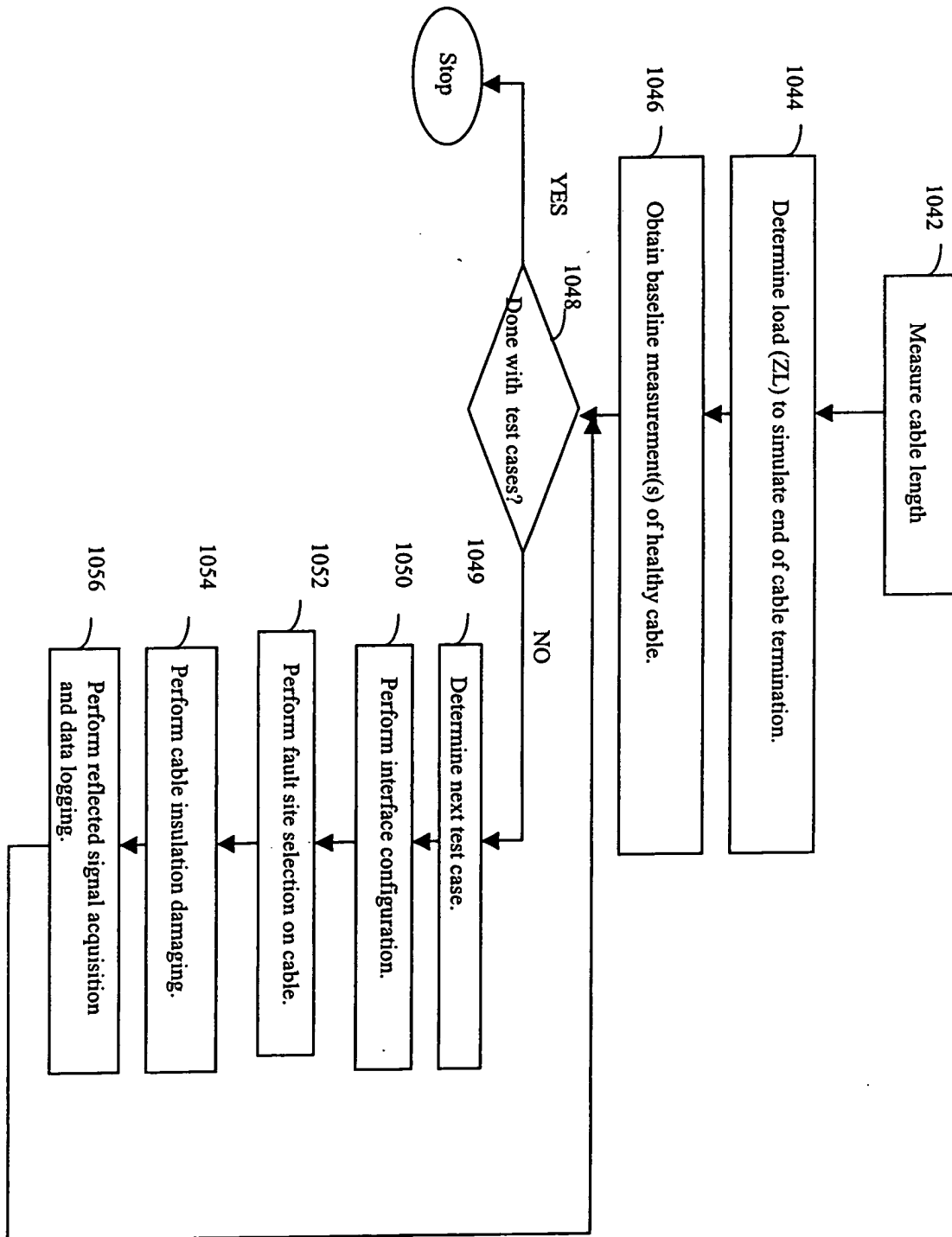


FIGURE 22C

TITLE: WIRE FAULT DETECTION

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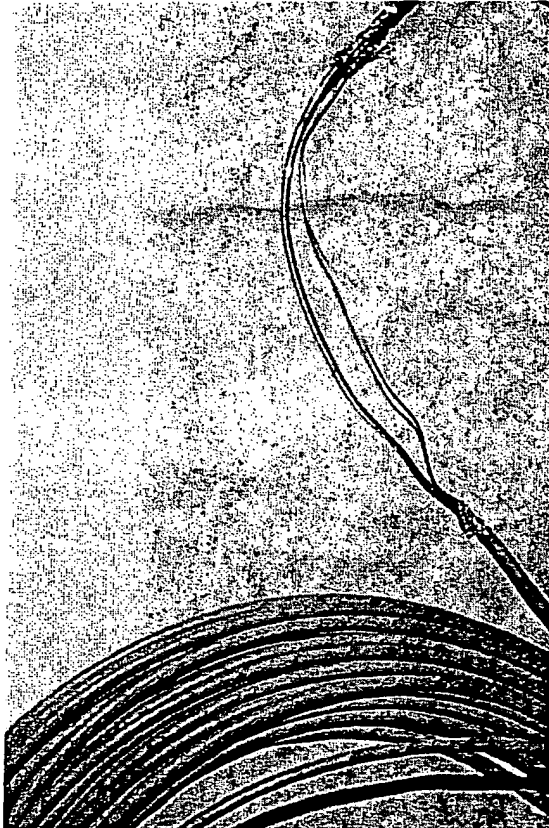


FIGURE 23

BEST AVAILABLE COPY

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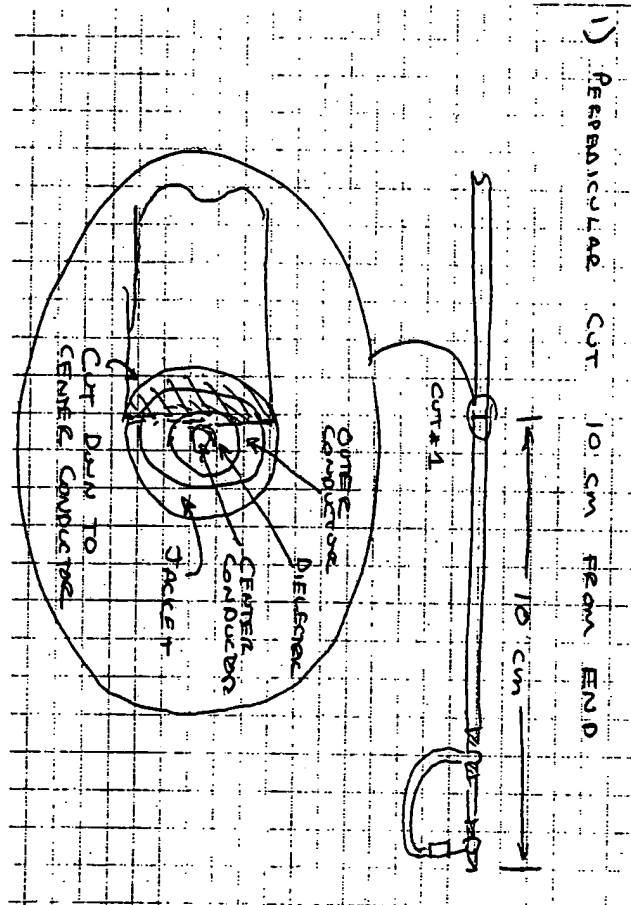


FIGURE 24A

BEST AVAILABLE COPY

1090

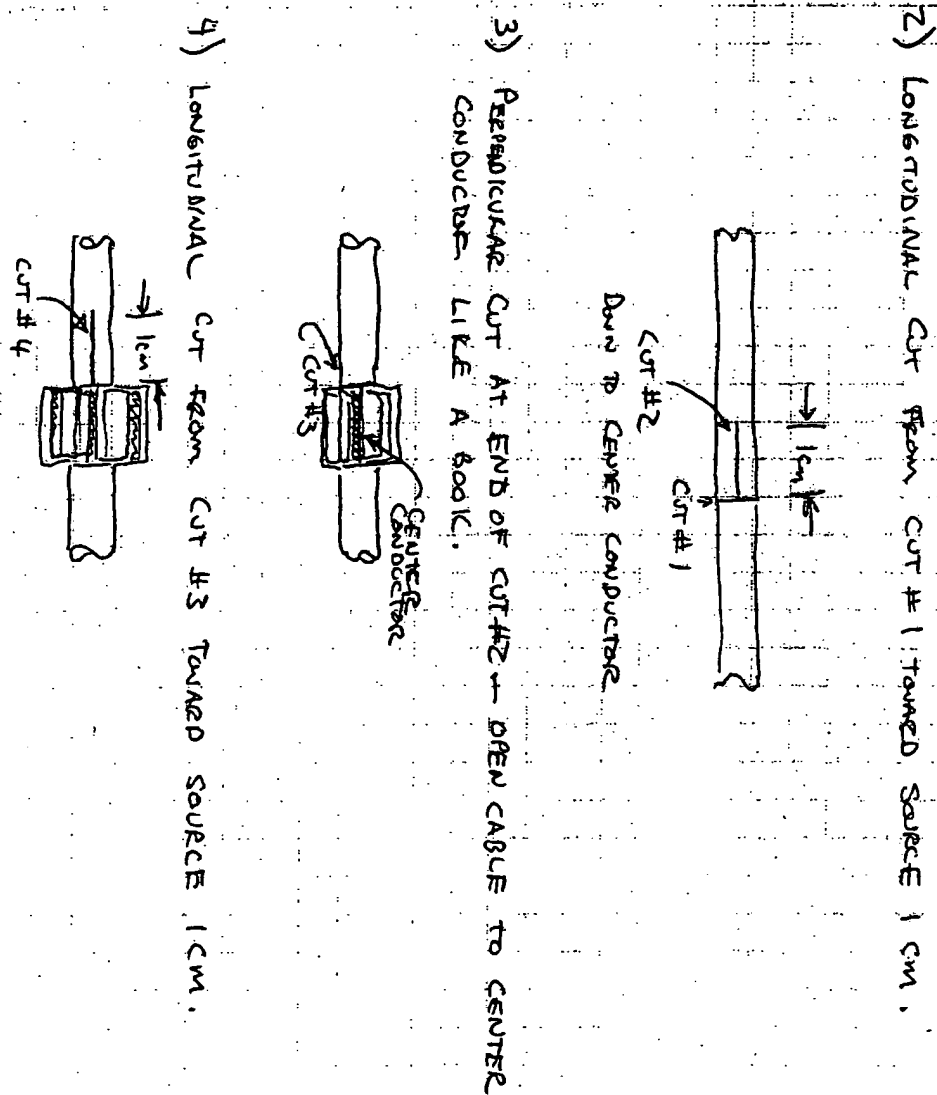


FIGURE 24B

TITLE: WIRE FAULT DETECTION

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5) PERPENDICULAR CUT AT END OF CUT #4 - OPEN CABLE TO
CENTER CONDUCTOR LIKE A BOOK.

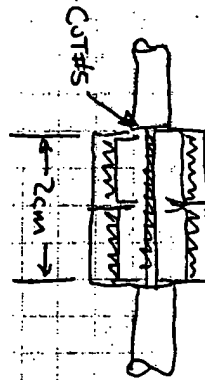
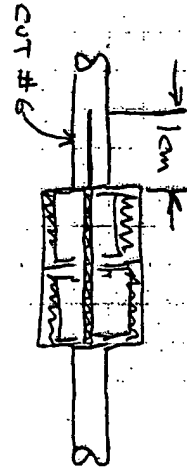


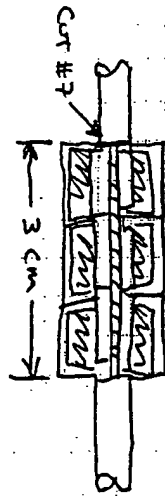
FIGURE 24C

1110

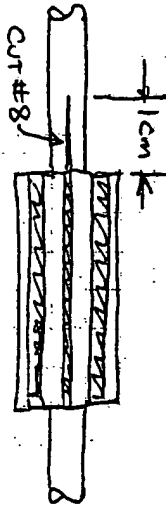
6) LONGITUDINAL CUT FROM CUT #5 TOWARD SOURCE 1 CM.



7) PERPENDICULAR CUT AT END OF CUT #6 - OPEN CABLE TO CENTER CONDUCTOR LIKE A BOOK



8) LONG. CUT FROM CUT #7 TOWARD SOURCE 1 CM.



9) PERP. CUT AT END OF CUT #8 - OPEN CABLE TO CENTER CONDUCTOR LIKE A BOOK.

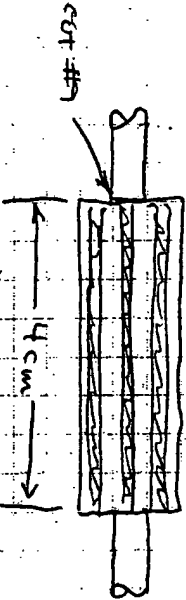


FIGURE 24D

1120

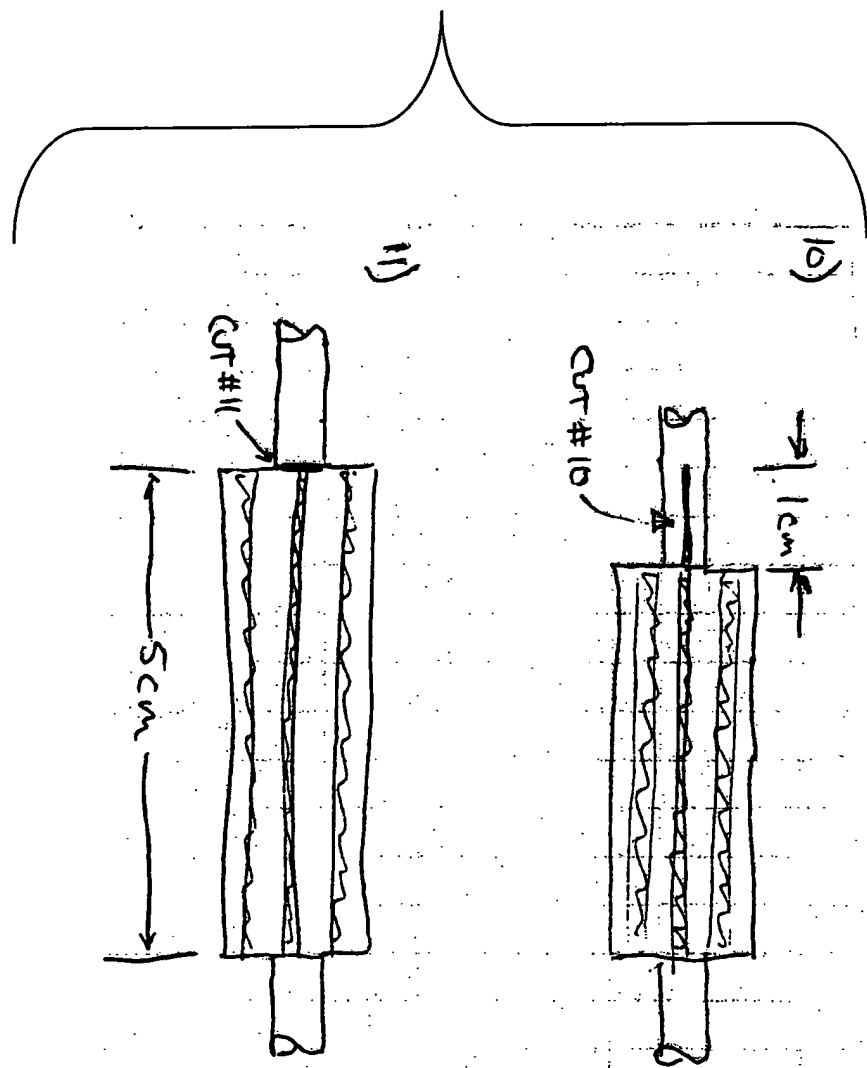


FIGURE 24E

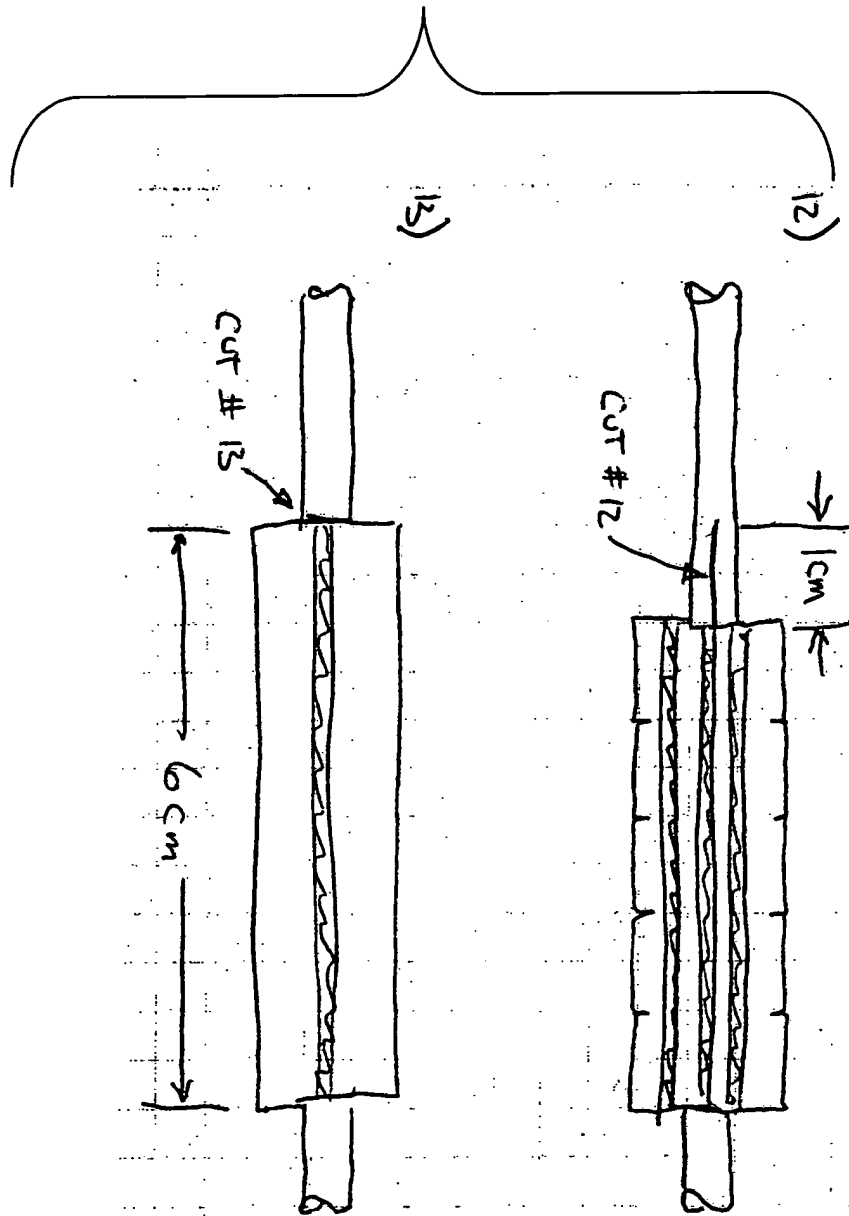


FIGURE 24F

TITLE: WIRE FAULT DETECTION

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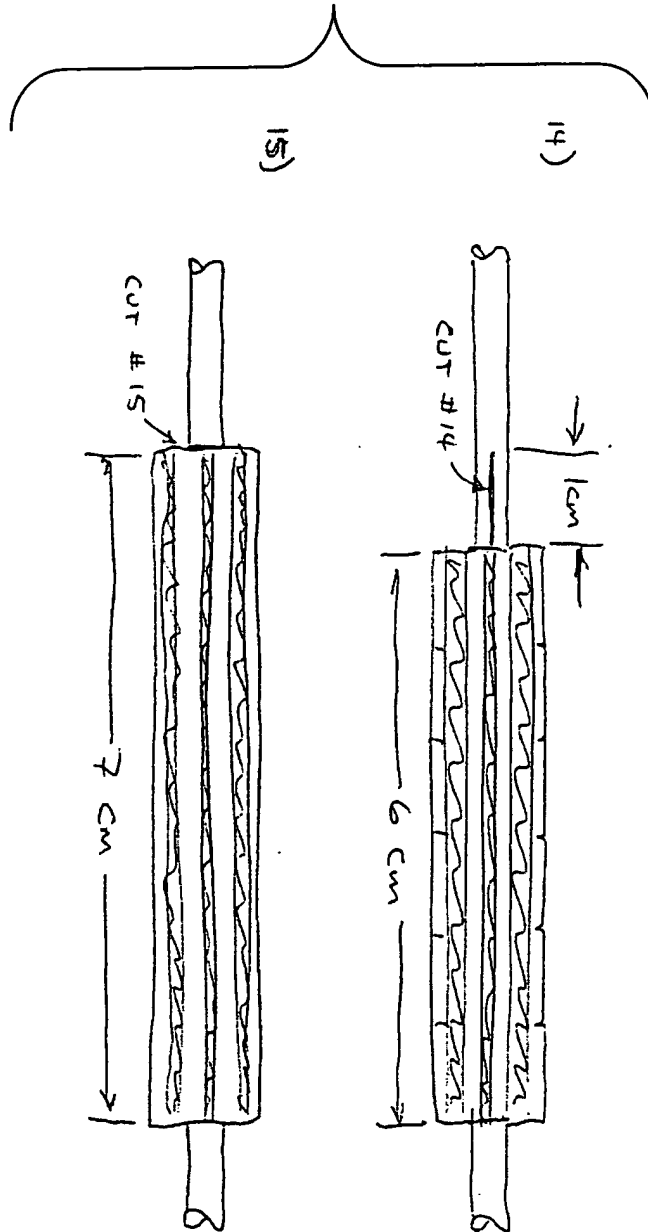


FIGURE 24G

TITLE: WIRE FAULT DETECTION

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Reflections generated by an eight ns-width pulse and sampled at 1-GHZ frequency.

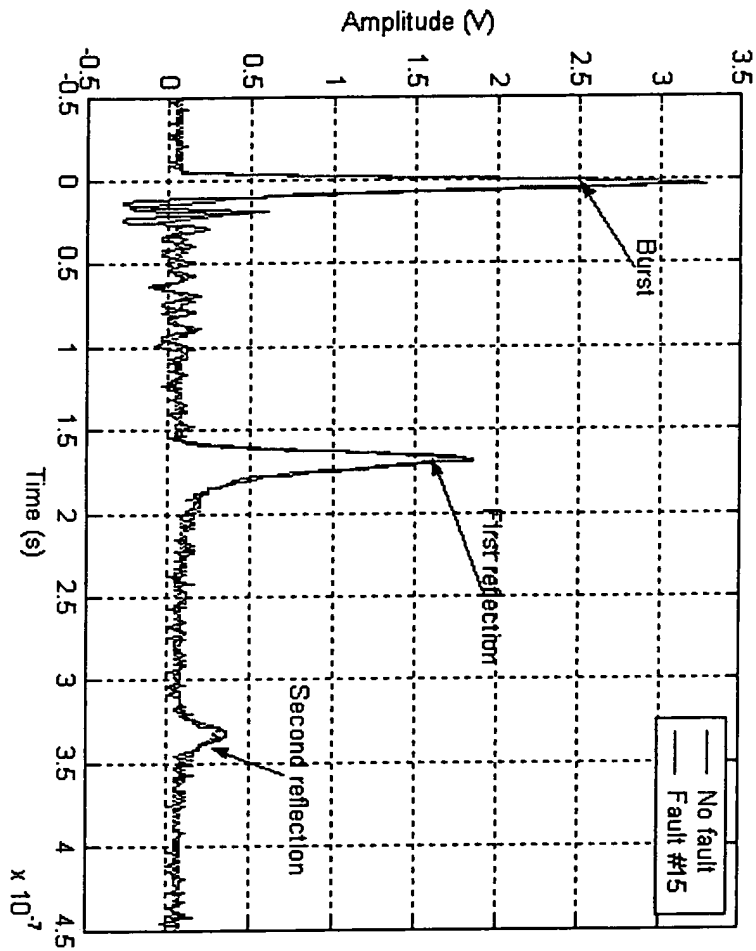


FIGURE 24H

1150

Differential wavelet energy ratio versus fault-sizes computed using the pulse stimulus of the Figure 24H over a time-span of 0.5 microseconds and a frequency band of 0.1 → 5.6 MHz.

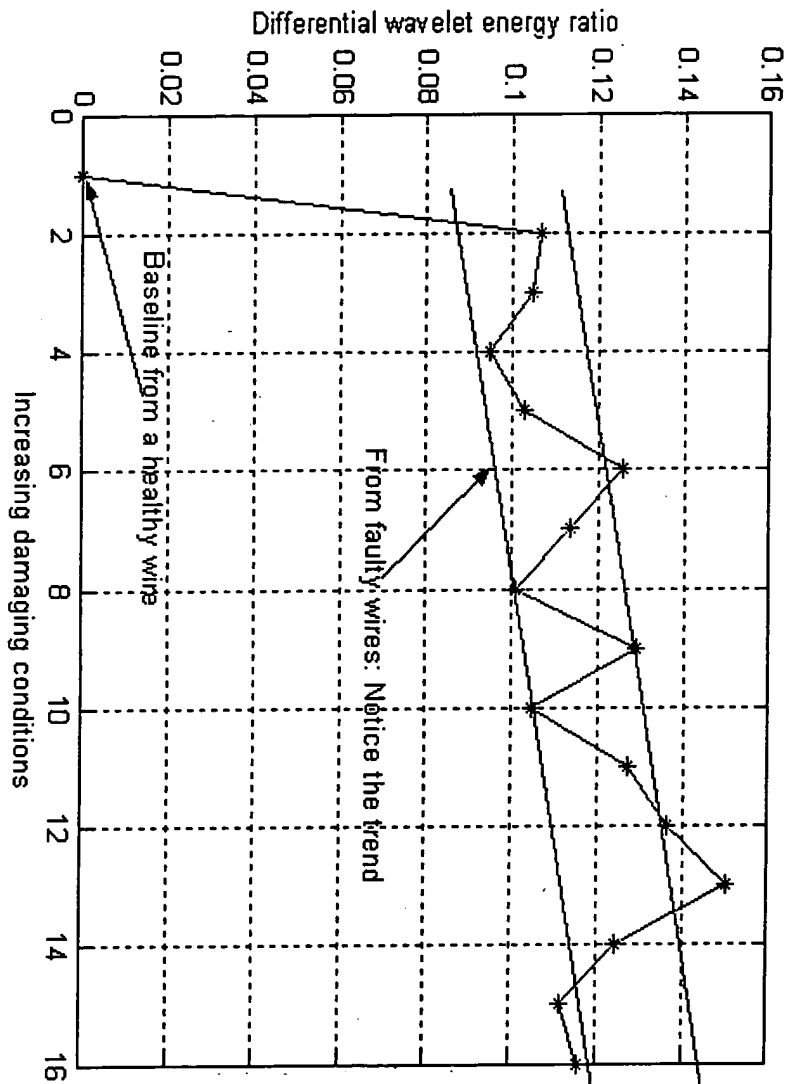


FIGURE 25

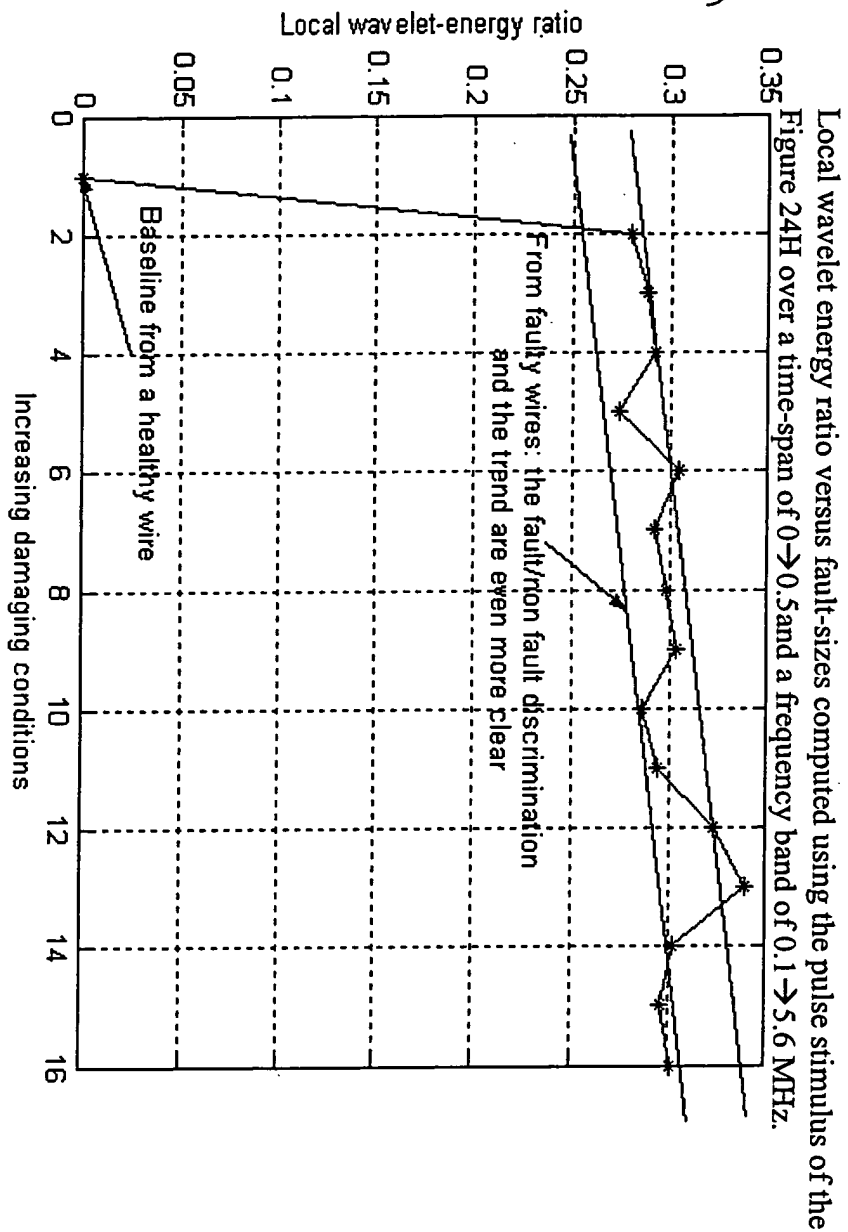


FIGURE 26A

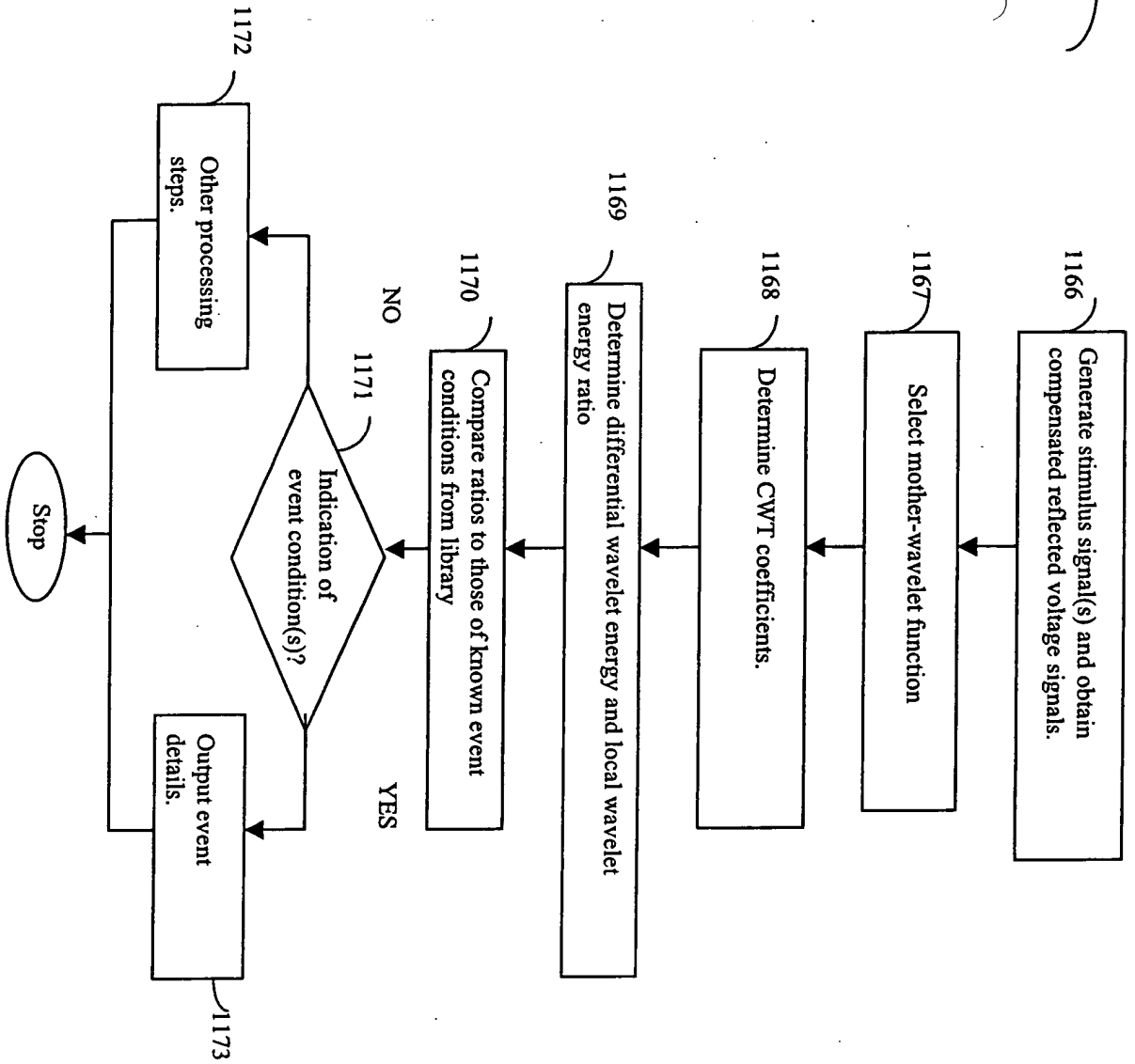


FIGURE 26B

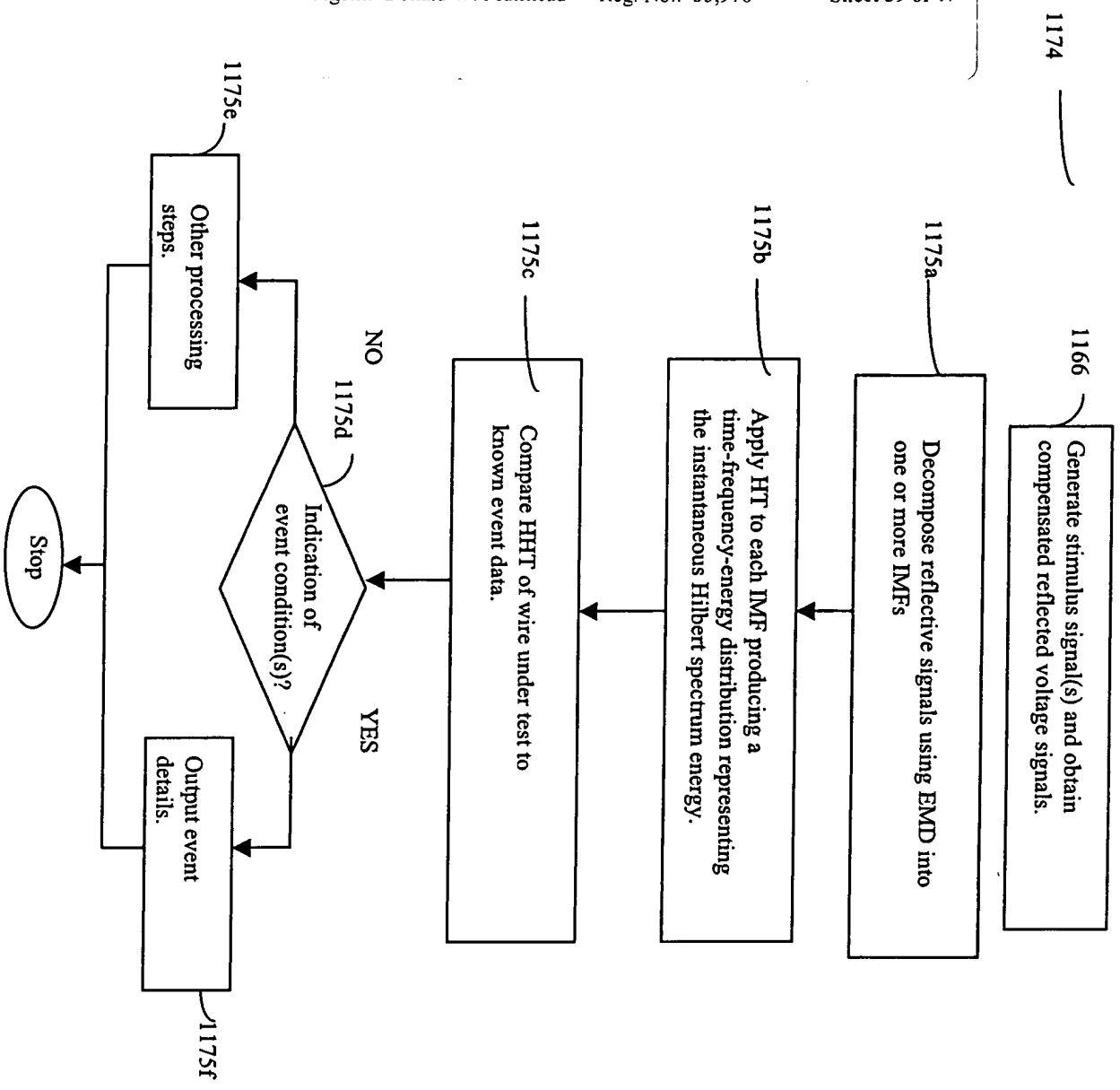


FIGURE 26C

1180

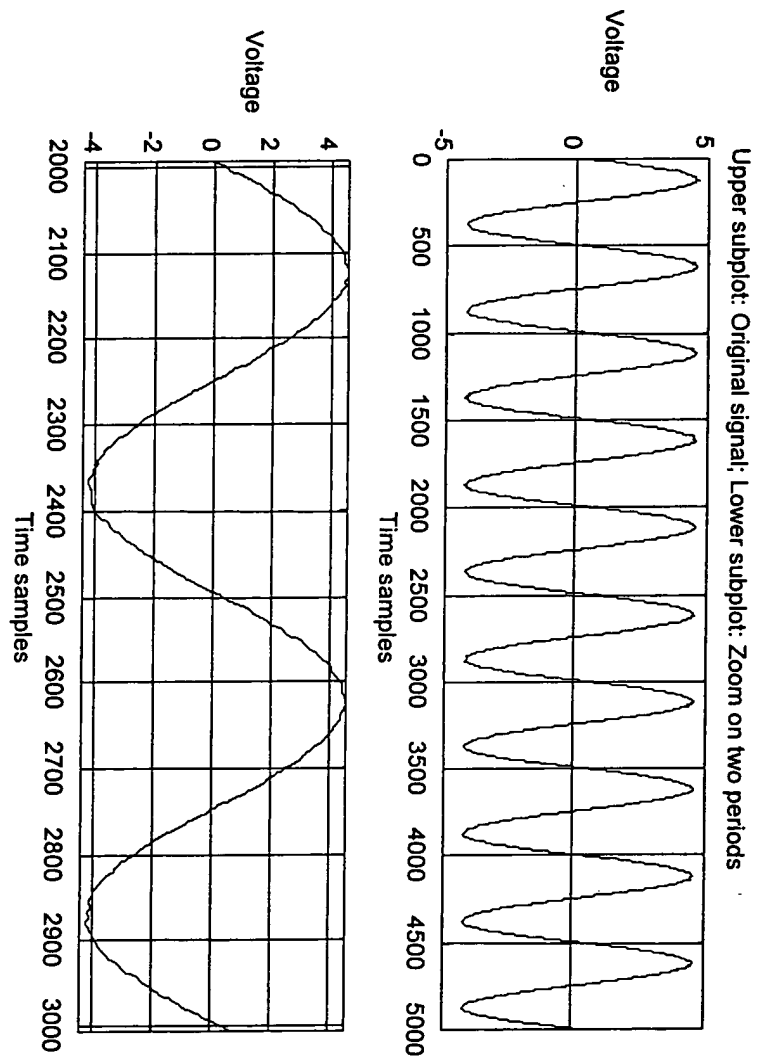


FIGURE 27A

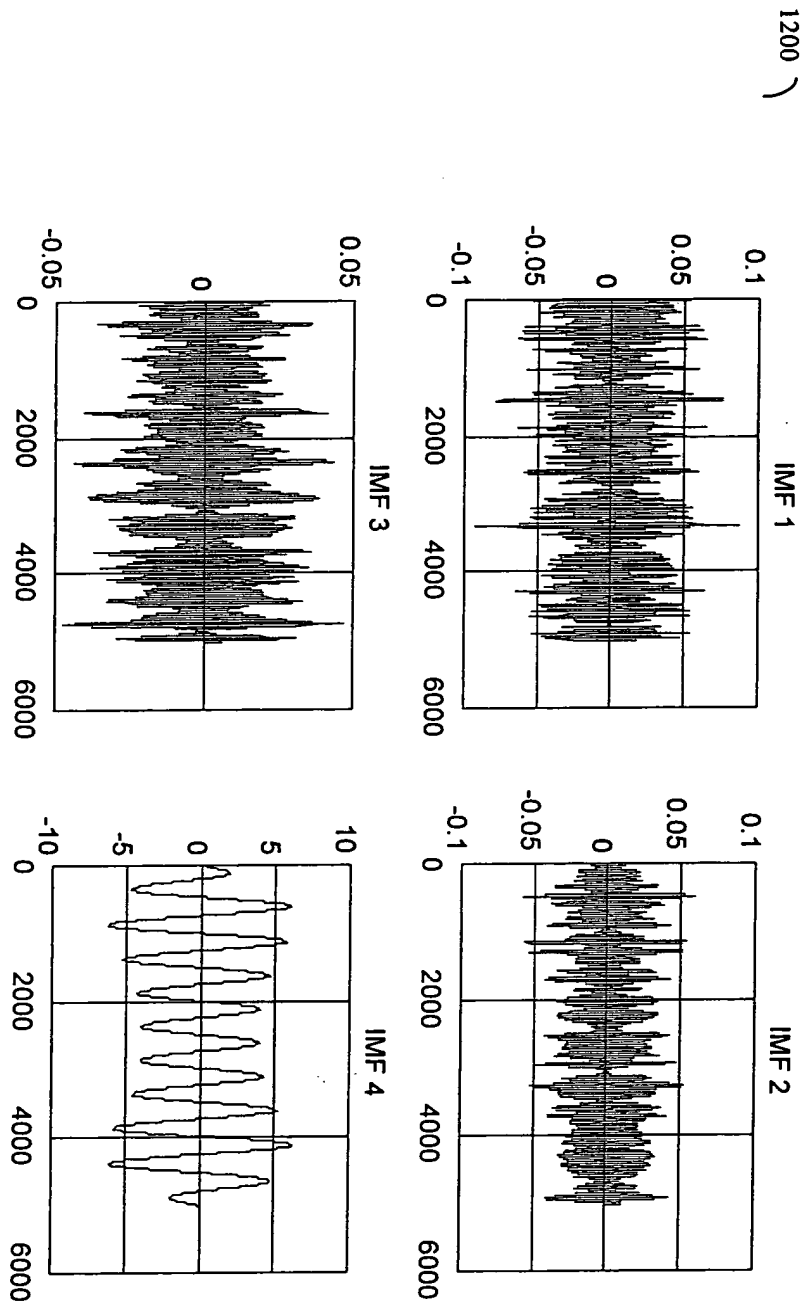


FIGURE 27B

1220

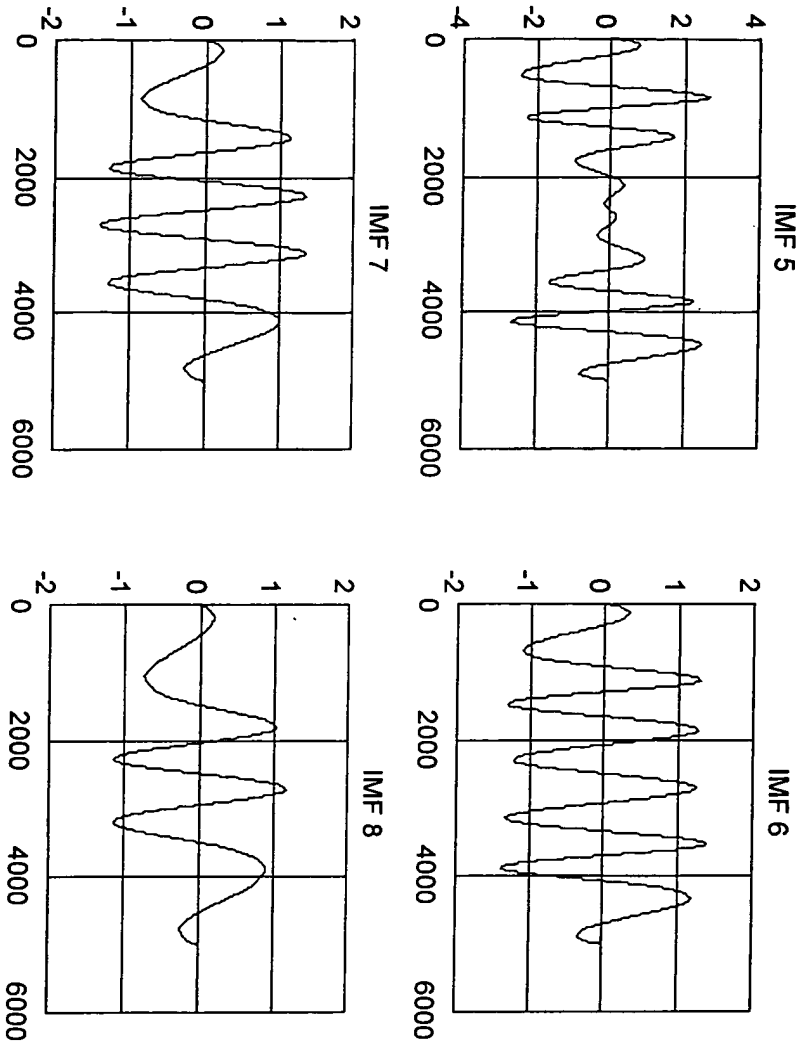


FIGURE 27C

TITLE: WIRE FAULT DETECTION

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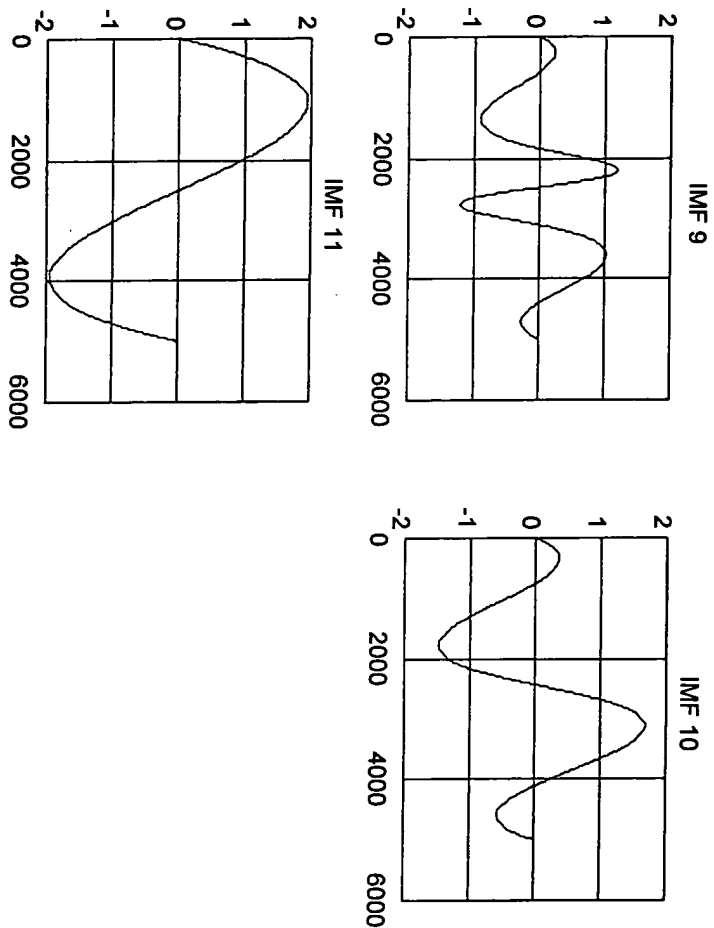


FIGURE 27D

TITLE: WIRE FAULT DETECTION

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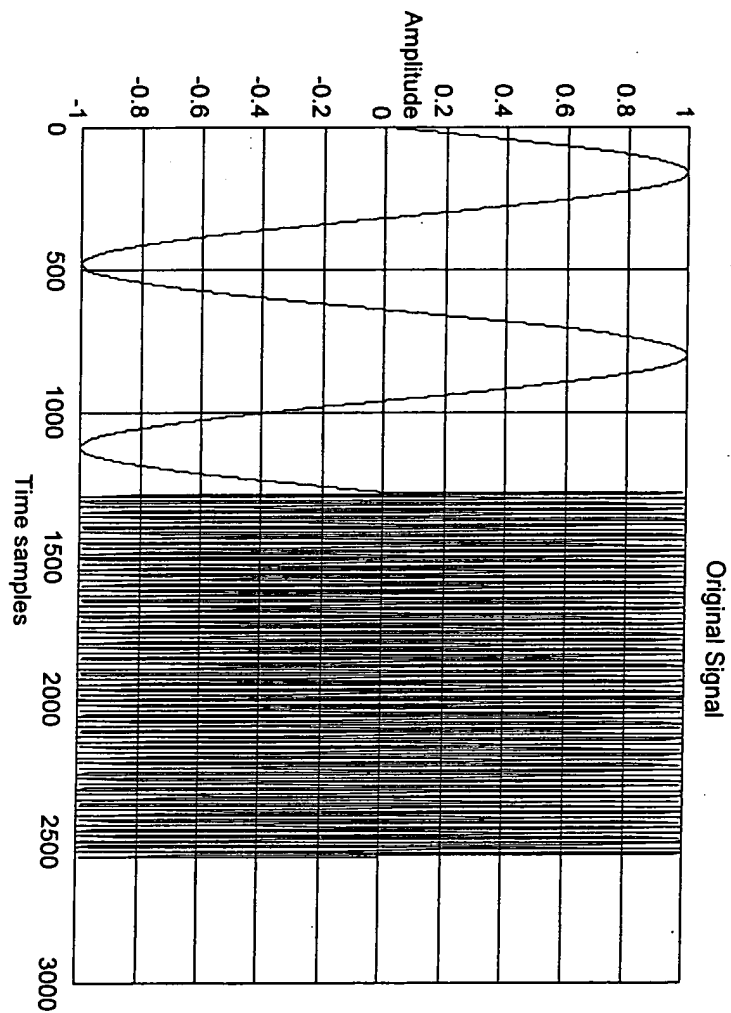


FIGURE 28A

TITLE: WIRE FAULT DETECTION

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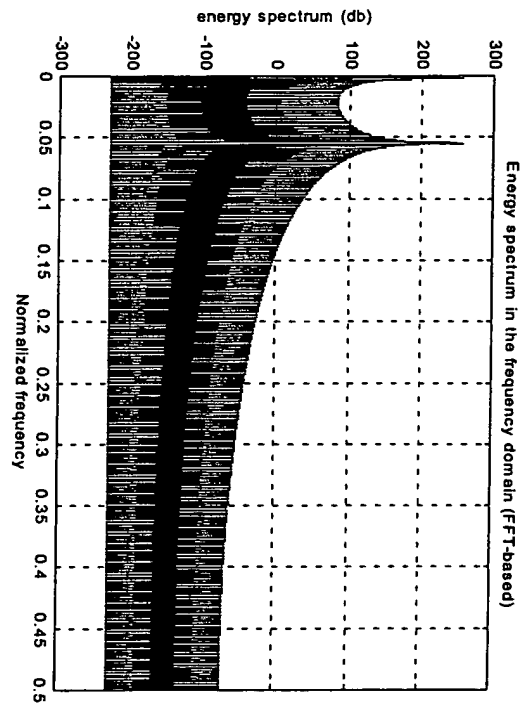


FIGURE 28B

TITLE: WIRE FAULT DETECTION

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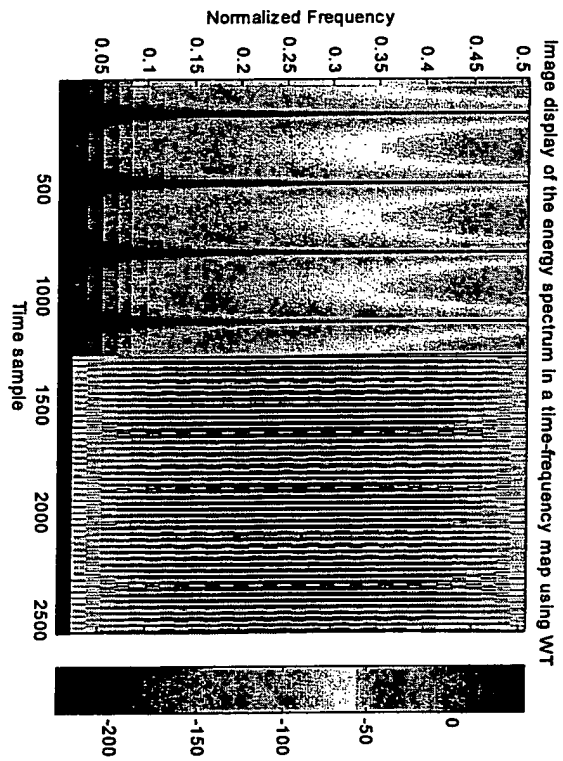


FIGURE 28C

TITLE: WIRE FAULT DETECTION

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1360 7

Image display of the energy spectrum in a time-frequency map using HHT

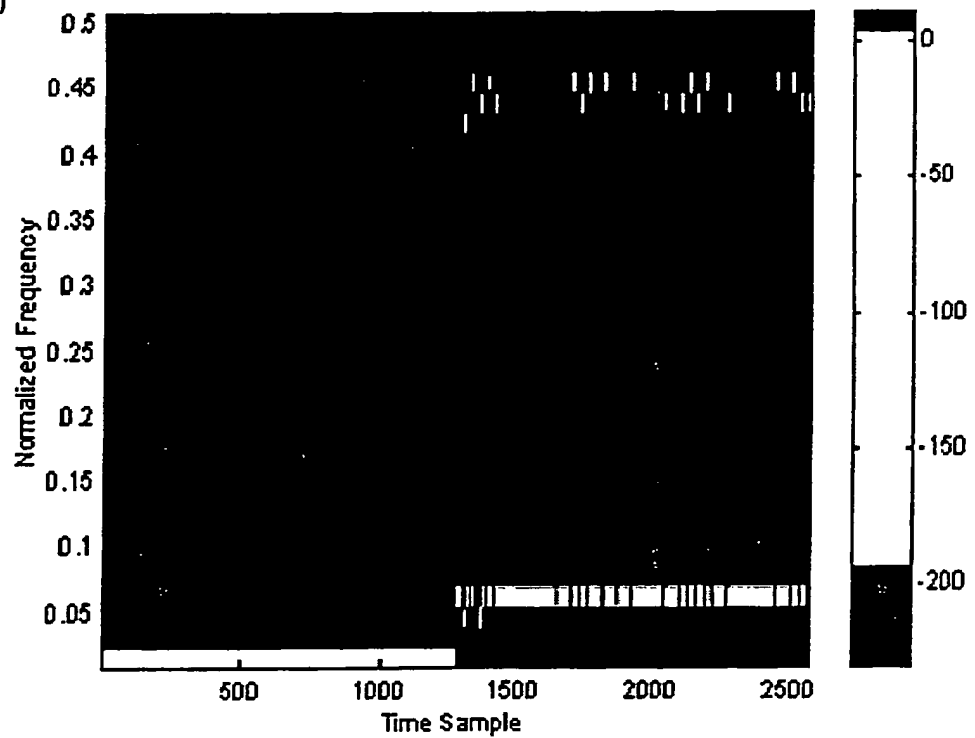


FIGURE 28D